

## CURRICULUM VITAE

Dr.K.L.UDAY KIRAN

Assistant Professor ©

**Qualfication : Ph.D in Mechanical Engineering**

Department of Mechanical Engineering

University College of Engineering

Osmania University, Hyderabad, Telangana

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9959738537



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1. Name of the Faculty : Dr. K.L.Uday Kiran
  2. Father's Name : K.R.Laxminarayan
  3. Date of Birth : 07/08/1977
  4. Designation : Assistant Professor (contract)
  5. Department : Mechanical Engineering
  6. Field of Specialization : Production Engineering
  7. Address for Correspondence : Department of Mechanical Engineering  
University College of Engineering  
Osmania University  
Hyderabad, Telangana  
Pin code: 500007

### 8. Academic Qualifications:

| Degree | Institute/University              | Specialization         | Year of Pass |
|--------|-----------------------------------|------------------------|--------------|
| B.Tech | JNTU<br>(Hyderabad)               | Mechanical             | 2001         |
| M.Tech | Osmania University<br>(Hyderabad) | Production Engineering | 2007         |
| Ph.D   | Osmania University<br>(Hyderabad) | Production Engineering | 2022         |

Ph.D Title:

***“Parametric Optimization of Taper Cutting Process on AISI D2 Steel using Wire EDM”***

Supervisor's:

Prof. G. Chandra Mohan Reddy, Dept. of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad.

Prof. A.M.K. Prasad, Retd., Dept. of Mechanical Engineering, University College of Engineering (A) Osmania University, Hyderabad.

9. Teaching Experience :

| Organization                                                     | Designation                    | Period     |           | No of Years |
|------------------------------------------------------------------|--------------------------------|------------|-----------|-------------|
|                                                                  |                                | From       | To        |             |
| University College of Engineering, Osmania University, Hyderabad | Assistant Professor (contract) | 16-07-2007 | Till date | 18          |

10. Industrial Experience : Nil

11. Number of Publications : 14

12. Number of Ph.Ds Guided : Nil

13. Number of M.E. Projects Guided : Nil

14. Number of B.E. Projects Guided : 08

15. Research Projects : Nil

16. Awards/Prizes : Nil

17. Countries Visited : Nil

18. Courses taught at PG and UG : **PG courses:** 1. Manufacturing Automation  
2. Computer Integrated Manufacturing

**UG courses:** 1. Principles of Management  
2. Production Planning And Control  
3. Industrial Administration & Financial Management  
4. Management Information Systems  
5. Elements of Mechanical Engineering

19. Administrative Experience : Nil

20. Membership of Professional Bodies : Nil

**21. Seminars/Conferences/Symposia/Workshops etc. Attended:**

- 1) Two day National Seminar On Quality Assurance and Faculty Preparation for NAAC Accreditation of Osmania University organized by Internal Quality Assurance Cell, Osmania University on 27th and 28th February 2024.
- 2) International conference in emerging trends in engineering (ICETE-2019) organized by University College of engineering, Osmania University held during 22-23 march 2019.
- 3) 24<sup>th</sup> International conference on hydraulics, water resources and coastal engineering HYDRO-2019 organized by Dept. of civil engineering, University College of engineering, Osmania University in association with society of hydraulics (ISH) held during 18-20 December 2019.
- 4) Two days technical workshop on Auto CAD held on 23 and 24 February 2019 by Dept. of Mechanical Engineering, University College of engineering, Osmania University along with Canter CADD.
- 5) One day induction programme on 20 January 2018 at University College of Engineering (A), Osmania University sponsored by 'TEQIP-III' (Technical improvement quality improvement programme, phase-III).

- 6) 62<sup>nd</sup> Congress of International society of theoretical and applied mechanics (ISTAM-2017) during 15-18 December 2017 organized by Dept. of Mathematical, Mechanical and Civil Engineering, University College of Engineering, Osmania University, Hyderabad.
- 7) International conference on advances in materials and manufacturing (ICAMM-2016) during 8-10 December 2016 jointly organized by Dept. of Mechanical Engineering, University College of engineering, Osmania University, Hyderabad and Defence research and development laboratory (DRDL), DRDO, Ministry of defence, Govt. of India Hyderabad.
- 8) One day workshop on “Finite Element Methods” (FEM-2016) on 30 July, 2016 at Dept. of civil Engineering, University College of engineering, Osmania University, Hyderabad.
- 9) 3-day workshop on “Metrology” as per ASME GD&T Y 14.5 during 21-23 March 2013, sponsored by TEQIP-II organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad.
- 10) One day workshop on “Industry-Institute and Defence Labs Interaction” held on 30 August, 2014 organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad.
- 11) Participated in Inter University Zonal (North/South/east/west/central) Youth Festival organized during 16-20 November 2012 by Osmania University, Hyderabad.
- 12) National conference on “Recent advances in Mechanical Engineering (RAME-2012)” during 16-17, March, 2012 organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad.
- 13) International Conference on Reforms in Technical Education- Global Trends (ICORTE-2010) organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad during 27-28 August 2010.
- 14) One day seminar on “Advanced Manufacturing systems (AMS’09)” organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University on 30 July 2009.
- 15) International Meet on 53<sup>rd</sup> Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM-2008) held during 27-30, 2008 organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University.
- 16) Two day training on “CNC PROGRAMMING & MACHINING” (under TEQIP networking activities) organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University Hyderabad during 23-24 march 2007.
- 17) International Conference on Vibration Engineering and Technology of Machinery (VETOMAC –IV) Organised by University College of Engineering, OU and BHEL R&D at Hyderabad during Dec 17-19, 2007.

## **22. Orientation/Short-term Courses Attended :**

1. One month online faculty induction program (All disciplines) from 02-12-2022 to 31-12-2022 being organized by UGC-HRDC, Osmania University, Hyderabad, TS.
2. AICTE sponsored Two week Faculty development program (FDP) on Innovations and Research Challenges in Advanced Materials Processing and Characterization Techniques from

21<sup>st</sup> Feb to 04<sup>th</sup> March 2022 organized by Dept. of Mechanical Engineering, Nalla Malla Reddy Engineering college, Ghatkesar Mandal, Medchal Dist., TS.

3. One week short term course on “Experimental Techniques and Data Analysis” held on 22-26 April, 2019 organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University in association with Dept. of Mechanical Engineering, Veer Surendra Sai University of Technology , Burla, Odisha sponsored by TEQIP-III UCE,OU.
4. One week short term course on “Experimental Designs and Optimization (sponsored by TEQIP-II)” held during 19-23 May, 2014 organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University.
5. One week faculty development programme on “MSC-NASTRAN (Hands on experience)” held from 12-17 May, 2014 under TEQIP-II at Dept. of Civil Engineering, University College of Engineering, Osmania University.
6. Two weeks “Faculty development programme in Entrepreneurship” organized by Entrepreneurship Development Cell (EDC), Osmania University, Hyderabad.
7. Short term course on Engineering Research Methodology held during 2-4 Feb, 2012 organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University.
8. One week short term course on “Reverse Engineering Based Manufacturing” (sponsored by TEQIP-III) organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University.
9. Staff development programme on Programme on Technological Improvements in Plastics Processing and Testing held during 09-20 August, 2010 Organized by Central Institute of Plastics Engineering & Technology, Hyderabad.
10. One week short term training programme (STTP) on “Rapid Prototyping and e-Manufacturing” held during 23-28 March, 2009, organized by Centre for prototyping and testing of industrial products, Dept. of Mechanical Engineering, University College of Engineering, Osmania University. (23-03-2009 to 28-03-2009).

**23. Workshops/Training Programmes Conducted** : Nil

**24. Research Publications:**

**National and Internal Journals:**

- 1) K.L. Uday Kiran, G. Chandra Mohan Reddy and A.M.K. Prasad, “Optimization of Process Parameters in Wire EDM Taper Cutting Process”, International Journal of Mechanical Engineering, ISSN:2348–8360, doi:10.14445/23488360/IJME-V8I9P102, Volume 8 Issue 9, 11-16, Sep, 2021.
- 2) K.L. Uday Kiran, G. Chandra Mohan Reddy, A.M.K. Prasad & K. Saraswathamma, “Multi Objective Optimization Of Wire EDM Angular Cutting On AISI D2 Steel Using Desirability Function”, International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN(P): 2249-6890; ISSN(E): 2249-8001, Vol. 10, Issue 4, Jun 2020, 11461-11470
- 3) K.L. Uday Kiran, Sanar Zuhair Abbas, K. Saraswathamma, G. Chandra Mohan Reddy and A.M.K. Prasad, “Parametric Optimization During Wire EDM Taper Cutting on AISI D2 Steel

Using Desirability Function”, Springer Nature Switzerland AG 2020, ICETE 2019, LAIS 2. PP – 568 – 576, 2020. (Published in Springer link journal)

- 4) K.L.Uday Kiran, G. Chandra Mohan Reddy & A.M.K.Prasad, “ Study on Effect of process parameters on angular error and Cutting speed in wire-EDM taper cutting”, International Journal for Research in Engineering Application & Management (IJREAM), ISSN : 2454-9150 ,Vol-04, Issue-10, Jan 2019.
- 5) K.L.Uday Kiran, K.Saraswathamma, G. Chandra Mohan Reddy, A.M.K.Prasad, “Effect of Process Parameters on Angular Error in Wire-EDM Taper Cutting of AISI D2 Tool Steel”, International Journal of Engineering Science Invention (IJESI) ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726 [www.ijesi.org](http://www.ijesi.org) ||Volume 7 Issue 6 Ver IV || June 2018 || PP 67-72.
- 6) K. L. Uday Kiran, T Nagaveni , K. Saraswathamma , AMK. Prasad , G. Chandra Mohan Reddy, “Multi-objective optimization of WEDM process parameters for taper cutting of AISI D2 tool steel”, International Journal of Engineering & Technology, 7 (4.5) (2018) 703-706.
- 7) K.L. Uday Kiran, K. Saraswathamma, A.M.K. Prasad and G. Chandra Mohan Reddy, “Prediction of angular error and surface roughness in Wire-EDM taper cutting of AISI D2 tool steel”, National Conference on Advances in Mechanical Engineering and Nanotechnology (NCAMENT2018), 29-30 June, 2018.(Published in International Journal of Modern Engineering and Research Technology, Volume 5, Special issue, June 2018, ISSN: 2348-8565 (Online)).
- 8) K.L.Uday Kirana, P.Sarath, K.Saraswathamma, G.Chandra Mohan Reddy, “Prediction of angular error in wire-EDM taper cutting of AISI D2 tool steel by RSM approach”, Materials Today: Proceedings 5 (2018) 27043–27050.
- 9) K. L. Uday Kiran , K. Saraswathamma , AMK. Prasad , G. Chandra Mohan Reddy, “Study on Wire-EDM Taper Cutting Process: A Review”, International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES) Impact Factor: 3.45 (SJIF-2015), e-ISSN: 2455-2585 Volume 3, Issue 12, December-2017.
- 10) K.L.Uday Kiran, G.Chandramohan Reddy , A.M.K.Prasad and R.Rajendra, “ Study of Surface integrity Characteristics on Al and Die Steel Components using Copper tool in Sink EDM Process”, International Journal of Current Engineering and Technology E-ISSN 2277 – 4106, P-ISSN 2347 – 5161.
- 11) K.L.Uday Kiran, R.Rajendra, G.Chandramohan Reddy, A.M.K Prasad, “Comparative Study on Variation of Process Characteristics on Al And Die Steel Components In Sink EDM Process”, International Journal Of Advanced Research In Engineering And Technology (IJARET), Volume 4, Issue 3, April 2013, pp. 170-177.

#### **National and Internal Conferences:**

- 1) K.L.Uday Kiran, K.Saraswathamma and M.Rajesh, “Multi Objective Optimization of Process Parameters of Electro Discharge Machining on Nimonic 80A Using Grey Relational Analysis” , 5<sup>th</sup> ISSE National Conference (INAC-05) on Systems Approach for Self-Reliance in Advanced Technologies – (SASAT-2023) 24-25 March 2023. <https://doi.org/10.37285/bsp.sasat2023.54>

- 2) K.L.Uday Kiran, P.Akhila, K.Saraswathamma and S.Satyanarayana, “Effect of Aluminium Powder Mixed Vegetable Oil and Silver Coated Copper Electrode on Electrical Discharge Machining of Inconel 718”, 37<sup>th</sup> Indian Engineering Congress 2022, Role of Engineers for Creating a Sustainable and Self Reliant India, IEC/2022/166/MC14.
- 3) K.L.Uday Kiran, P.Akhila, K.Saraswathamma and S.Satyanarayana, “Study of Mechanical Properties, Microstructure and Wear Behaviour of AL 6061 Metal Matrix Composite Reinforced with AISI 1060 Steel Chips”, 37<sup>th</sup> Indian Engineering Congress 2022, Role of Engineers for Creating a Sustainable and Self Reliant India, IEC/2022/167/MC15.
- 4) K.L.Uday Kiran, G.Chandramohan Reddy , A.M.K.Prasad and R.Rajendra, “Effect of Current on Surface Roughness Parameters and MRR in Sink EDM Process”, 2<sup>nd</sup> International Conference on Advancements in Engineering And Management, RITS ICAEM-2013.

(Refereed Publications in Journals and Conference Proceedings)

|                             |   |           |
|-----------------------------|---|-----------|
| • International Journals    | : | <b>11</b> |
| • National Journals         | : | Nil       |
| • International Conferences | : | <b>04</b> |
| • <b>Total Number</b>       | : | <b>15</b> |

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