

CURRICULAM VITAE

Dr. A. HEMANTHA KUMAR, M.Tech, Ph..D.

Professor & Head

Department of Mechanical Engineering

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Name : Dr. A. Hemantha Kumar

Father's Name : A. Nagaraja

Date of Birth : 09-08-1974

Address for Communication: 5-5-321A, S.D. Lay Out

Tirupati-517501

Tirupati (Dist)

Andhra Pradesh

Nationality : Indian

Caste : Gandla

Group : BC-B

Educational Qualifications:

S.No	Name of the Qualification	Name of the School/College	Name of the Board / University	% of Marks
1	B.Tech. (Mechanical Engg.)	S.V.U College of Engineering (1994-1998)	S.V. University- Tirupati.	65
2	M.Tech. (Industrial Engg.)	S.V.U College of Engineering (1998-2000)	S.V. University- Tirupati.	76.7
3	Ph.D. (Production)	Rayalaseema University Title of the work: Optimization of various process parameters in Metal Cutting (EDM) using MCDM Techniques. Completed in the year 2017	Kurnool University, Kurnool	

Experience: (23 Years)

- Working as a Professor in Annamacharya Institute of Technology and Sciences, Rajampet, from December 2017 to till date.
- Worked as an Associate Professor in Annamacharya Institute of Technology and Sciences, Rajampet from October 2008 to November 2017.
- Worked as an Assistant Professor in Annamacharya Institute of Technology and Sciences, Rajampet from September 2002 to Sep2008.
- Worked as a Teaching Assistant in Mechanical Engineering Department at S.V.U College of Engineering, S.V University, Tirupati from Aug 2000 to May 2002. (1year 9 months)

Additional Responsibilities Handled:

- Working as a HOD, Annamacharya Institute of Technology and Sciences, Rajampet, from June 2018 to **till date**.
- Acting as an Academic Council Member in AITS, Rajampet.
- Chairman of BOS in Department of Mechanical Engineering, AITS, Rajampet from 2018 onwards.
- Acted as a Convenor for CGR Talent Meet 2023 Conducted by Mechanical Engineering Department, AITS, Rajampet.
- Worked as a NAAC coordinator for Mechanical Engineering Department, Annamacharya Institute of Technology and Sciences, Rajampet.
- Appointed as a chief examiner for JNTUA Examination spot evaluation for affiliated colleges.
- Appointed as a Question Paper setter for JNTUA examinations.
- Appointed as an Observer for JNTUA examinations for affiliated colleges.
- Acted as a Coordinator for three-day work shop on “Entrepreneurship Awareness Camp (EAP)” Held from 5th to 7th September 2018, at AITS, Rajampet.
- Acted as a Coordinator for Three day all India Seminar (work shop) by IEI Kadapa division on “Multi-Objective Optimization in Mechanical Engineering (MOM 2018)” Held from 27th to 29th September 2018, at AITS, Rajampet.

- Acted as a Convenor for ATM-2018 and ATM-2019 Conducted by Mechanical Engineering Department, AITS, Rajampet.
- Acted as a convenor for Faculty Development Programs conducted in the department of Mechanical Engineering, AITS, Rajampet.
- Guided **24** B.Tech Projects and **07** M.Tech Projects

LIST OF PUBLICATIONS/CONFERENCES

Year 2023

1. Patent published: Fuzzy Logic and Deep Learning Approaches Enhancing Industry 4.0 Implementation in Manufacturing And Control Sector, Application number :202221075234
2. Dr. A Hemantha Kumar, Dr. P Veera Sanjeev Kumar, Dr. G Venkata Subbaiah and Dr. L Hari Krishna” Flexural and Impact Characterization of Polymer Laminated Composites Reinforced with Bi-Woven Glass Fibers” Journal of Optoelectronics Laser. Volume 41 Issue 3,2022. ISSN:1005-00862.

Year 2022

1. **Dr. A. Hemantha Kumar**, presented paper on “Simultaneous Scheduling of machine and tools without tool delay using crow search algorithm” in the International Conference on “Recent Advances in Materials, Manufacturing and Machine Learning (RAMMML-2022). Institute of Engineers Maharashtra held on April 26th -27th 2022.
2. **Dr. A. Hemantha Kumar**, Dr. P. Veera Sanjeeva Kumar, D.Vishnuvardhan Reddy, L.Ramamohan Reddy “Design Of Collaborative Robots For Arc Welding Applications By Using “Motosim Software” Neuroquantology | September 2022 | Volume 20 | Issue 11 | Page 4044-4052 | Doi: 10.14704/Nq.2022.20.11.Nq66407

Year-2020

1. Dr. P.V. Sanjeeva Kumar, **Dr. A. Hemantha Kumar**, Dr. G. V. Subbaiah “Polymer Laminated Composites Reinforced with Bi-Woven Glass Fibers: Subjected to Tensile And Compression Loading”. International Journal of Scientific Technology & Research, Vol.09, Issue 02, February 2020, pp.6280-6284. (**SCOPUS INDEXED JOURNAL**).

2. P.V. Sanjeeva Kumar, K. Mallikarjuna, Dr. **A. Hemantha Kumar**,” Flexural and Impact Characterization of Polymer Laminated Composites Reinforced with Bi-Woven Glass Fibers”. Proceedings of the AICTE Sponsored National E-Conference on Technology for Impactful and Sustainable Development of the Society (TISDS-2020) December 15-16, 2020, pp-92.
3. L. Hari Krishna, **Dr A. Hemantha Kumar**, “Mixed Stream of Viscoelastic Liquid through A Porous Medium is Situated in A Vertical Channel with Permeable Walls”, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8 Issue-5, Pp 17-21, January 2020 (**Scopus indexed journal**).
4. L. Hari Krishna, **Dr. A. Hemantha Kumar**, “Free Convection Flow through a Porous Medium in the Third Grade Vertical Channel”, International Journal of Advanced Science and Technology (IJAST), Vol. 29, No. 6, pp. 4825 – 4831, ISSN: 2005-4238, May-2020 (**Scopus indexed journal**).

Year-2019

5. P.V.Sanjeev Kumar, **Dr. A. Hemantha Kumar**, N.V.Chalapathi, “Flexural Analysis Of Smart Structural Composite Laminates By Using A New Higher Order Theory ” International Journal of Mechanical and Production Engineering Research and Development ,Vol.09, Issue 02, April 2019,pp.311-320.
6. N, Kishore Kumar, S Md Saleemuddin, **Dr. A. Hemantha Kumar**, “Design and Fabrication of Low cost Ball Milling Machine for Producing Nano Particles”, International Journal of Engineering Research, Volume No 8, Issue No. 4, pp 119-112.
7. N Nagaraju, K Nagamani, R V N R Surya Prakash, **Dr. A. Hemantha Kumar**, “Optimization of EDM process parameters in Machining through Hole making of 1`7-4 PH Stainless steel by using Grey Taguchi Technique”, International Journal of Engineering Research, Volume No 8, Issue No. 4, pp 104-109.

Year-2018

8. Dr. P.V. Sanjeeva Kumar, **Dr. A. Hemantha Kumar**, Dr. P. Vara Prasad, “Design and Fabrication of Motorised Staircase Climbing Trolley” International Journal of Applied Engineering Research, Vol.13, Issue17, August 2018, pp.13380-13385.
9. L. Hari Krishna, L. Sreekala and **Dr. A. Hemantha Kumar**, “Impact of Thermal in Stokes Second Problem for Unsteady Second Grade Fluid Flow”, **International Journal of Research in Advent**

Technology, PP.2420-2425, Vol.6, No.9, September 2018, E-ISSN: 2321-9637, **UGC Approved Journal No. 48768**

10. L. Hari Krishna, **Dr. A. Hemantha Kumar** and K. Janardhan, “Heat transfer effect on an oscillatory flow of Jeffrey fluid through a porous medium in a tube”, International Journal of Advanced Scientific Research and Management, PP. 149-153, Volume 3 Issue 12, Dec 2018, ISSN 2455-6378, **UGC Approved Journal No. 63502.**
11. V. Mallikarjuna, **Dr. A. Hemantha Kumar**, S MD Jameel Basha, “Design and Fabrication of 180⁰ Wheel Rotation vehicle” Journal of Engineering Technologies and Innovative Research, Nov 2018, Volume 6, Issue 5.

Year-2017

12. **A. Hemantha Kumar**, Dr. G. Subba Rao, Dr T. Rajmohan “Optimization of process parameters on surface roughness & metal removal rate on AISI1042 with coated tools by using Annova and Gray relational analysis”, I-Manager’s journal of Mechanical Engineers Vol 7 No.2 Nov 2016-Jan 2017.
13. **A Hemantha Kumar** “Comparison of Optimum cutting Parameters in Machining Die-Steel (EN-31) by using Gray Relation Analysis and TOPSIS” Manufacturing Technology Today, Central Manufacturing Technology Institute.
14. **A Hemantha Kumar** “Investigation of Optimum Cutting Parameters for End Milling of H13 Die Steel using Taguchi based Gray relational Analysis”. International Journal of Research in Advent Technology” ISSN No: 2321-9637.

Year-2016

15. **A. Hemantha Kumar**, Dr. G. Subba Rao, Dr T. Rajmohan “Parametric analysis of Optimum cutting parameters for AISI 1042 using PVD tool in turning operation using Grey Relation analysis”, Manufacturing Technology Today, March 2016, CMTI Bangalore
16. **A. Hemantha Kumar**, Dr. G. Subba Rao, Dr T. Rajmohan, Dr. G. Krishnaiah “Experimental Investigation and analysis of Cutting Parameters for AISI1042 using Grey-Taguchi analysis”, IJER (National Conference ITMAE-2016)
17. **A. Hemantha Kumar**, Dr. G. Krishnaiah, published paper on “Optimization Process parameters and Dielectric fluid on Machining EN 31 by using TOPSIS” in International

Journal of Engineering Research and application ISSN 2248-9622, Volume 6, Issue 9, (Part 4) Sep.2016 pp 13-18.

18. **A. Hemantha Kumar**, Dr. G. Krishnaiah, published paper on “Comparison of optimum cutting parameters in machining Die steel (EN 31) by using Gray Relational Analysis and TOPSIS” in International Journal for Scientific Research and Development, Vol 4, Issue 07, 2016 ISSN: 2321-0613 pp 517-523.
19. **A. Hemantha Kumar**, Dr. G. Krishnaiah, published paper on “Determination of Optimum parameters for multiple performance characteristics in EDM on Die steel by using Taguchi and GRA” in Intelligent Computing and applications (ICICA 2016) and publish the same in Springer Journal.
20. **A. Hemantha Kumar**, Dr. G. Krishnaiah, published a technical paper on “Comparison of Optimum Cutting Parameters in Machining Die Steel (EN 31) By Using Grey Relational Analysis and TOPSIS” in Manufacturing Technology today (CMTI).

Year-2015

21. **A. Hemantha Kumar**, Dr. G. Subba Rao, Dr T. Rajmohan “Comparison of optimum cutting parameters for AISI 1042 in turning operation by GA and PSS”, Applied Mechanics and Material Vols.813-814(2015) pp 285-291, Trans Tech Publications, Switzerland. (International Conference ICMME-2015)
22. **A. Hemantha Kumar**, Dr. G. Subba Rao, Dr T. Rajmohan “Experimental Investigation and analysis of Cutting Parameters for AISI1042 Using CVD tool in Turning operation, in International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 17 (2015) pp 38061-38065, Research India Publications.

Year-2014

23. **A. Hemantha Kumar**, M. Dastagiri, published a paper in International conference, entitled as “Experimental Investigation of EDM Parameters on aluminum and stainless steel.” In “International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments (ICRAMID-14)”, organized by Ponjesly College of Engineering, Nagercoil, on 7th& 8th March, 2014.
24. B. Venkatesh, T. Karthikeya Shama, **A. Hemantha Kumar** published a paper in international conference, entitled as “Experimental Investigation of Portable solar

Distillation Processes” in “International Conference on Recent Advances in Mechanical Engineering and Interdisciplinary Developments (ICRAMID-14)”, organized by Ponjesly College of Engineering, Nagercoil, on 7th& 8th March, 2014.

25. M. Dastagiri, **A. Hemantha Kumar** published a paper on “Experimental Investigation of EDM Process Parameters on Stainless Steel & En41B” in “ELSEVIER Procedia Engineering” 97 (2014) pp 1551–1564, ISSN:1877-7058, doi:10.1016 / j. proeng. 2014. 12. 439.
26. M. Dastagiri, **A. Hemantha Kumar** Asst. Professor of Mechanical engineering, Annamacharya institute of technology and Sciences, Rajampet presented a paper on “Experimental Investigation of EDM Process Parameters on Stainless Steel & En41B” in International conference of 12th Global Congress on Manufacturing and Management GCMM -2014 organized by VIT, Vellore during 8th to 9th December 2014.

ATTENDED WORK SHOPS/ SEMINARS/FDPs

- Participated in the AICTE Recognized Faculty Development Programme by NITTR, Chandigarh on “CAD using SolidWorks” Conducted by Mechanical Engineering Department from 04/09/2023 to 08/09/2023 (One Week) at Annamacharya Institute of Technology and Sciences (Autonomous), Rajampet, Andhra Pradesh.
- Participated in the workshop on “Designing and Modelling of IoT, AI&ML Systems” Organized by AICTE, ATAL Academy from 01-08-2022 to 05-08-2022 at Arm Education and ST Microelectronics.
- Participated in AICTE recognized Short Term Course on “Artificial Intelligence and Big Data Analysis for Electrical Engineering (in collaborations with Math Works) through ICT. From 07-03-2022 to 11-03-2022. at AITS, Rajampet,
- Attended online program on “Electric Vehicles- The Future of Mobility” ATAL Academy from 03-01-2022 to 07-01-2022 at Rajaram Bapu Institute of Technology, Sakharale.
- Attended online program on “Recent Advancement in Manufacturing Processing” ATAL Academy from 27-12-2021 to 31-12-2021 at Veer Surendra Sai University of Technology.
- Attended Literary Text Analysis: Theory and Practice, Udemy on 15th August 2021.
- Attended TWO Week FDP on “Big Data Analytics and Machine Learning” Held from 18th to 31th November 2019, at AITS, Rajampet.

- Attended ONE Week FDP on “Artificial Intelligence with IBM Watson” Held in December 2019, at AITS, Rajampet.
- Attended Six Day Faculty Development Program on “3D Printing Processing and Applications” organized by Dept. of Mechanical Engg., Brindavan Institute of Technology and Sciences, Kurnool.
- Certificate of appreciation in recognition of role as mentor for the NPTEL online certification course on “Fundamentals of Manufacturing Process” July-Oct 2018.
- Attended Faculty Development program on Recent Advances in Mechanical and Industrial Engineering, at MVSR Engineering College, Hyderabad.
- Foundation program in ICT for Education conducted by Indian Institute of Technology Bombay from AUG 3, 2017 to Sep 7, 2017
- Faculty Development Program on Implementation of Quality Circles in Educational Institutions held on 23rd January 2016
- Workshop on Research Methodology organized by Faculty of Management studies and HR on 11th April 2015 at SCSVMV university, Kanchipuram
- One day workshop on NAAC awareness organized by MITS, Madanapalle on 19th March 2015, sponsored by TEQUIP-II
- Advanced Manufacturing systems Simulation- Hands on Training organized by SVEC, Tirupati under TEQUIP-II during 8th -9th Sep, 2014
- Two-day national workshop on Advanced Optimization with Hands on Experience using MATLAB conducted at VIT university on 22nd and 23rd March 2013
- FDP on AUTOCAP 2011 by Institute of Electronic Governance at JNTU college of Engg, Pulivendula from 22nd November 2011 to 25th November 2011.
- AICTE sponsored one week staff development program on Recent trends in Manufacturing Systems held during 30th May to 5th Jun 2011 by AITS, Rajampet.
- Faculty Development Programme on Research Methodology from June 14th-19th 2010 organized by NIT, Calicut under MHRD and AICTE
- AICTE sponsored Two-week Faculty Development Programme on Research Methodology by BAIT, Sathya Mangalam from 31st may-11th June 2010.
- Workshop on Genetic Algorithm for Mechanical Engineering Optimization problems organized by NIT, Warangal during 3rd -5th May 2006 under TEQUIP.

- A Two-day workshop on Supply Chain Management at SVCET, Chittor on 29th & 30th July 2005.
- AISTE-ISTE sponsored short term Training Programme on Concurrent Engineering-A Modern approach to Product Development held from 27th-31th December 2004 at SRKR Engineering college, Bhimavaram.
- AICTE-ISTE sponsored two-week Short-Term Training Programme on Cleaner Manufacturing in Industries organized by Amritha Institute of Technology, Coimbatore from 25th October to 7th November 2004.

DECLARATION:

I hereby declare that the information furnished above is true to the best of knowledge.

Date:

Place: Tirupati

Signature

(A. HEMANTHA KUMAR)