

Dr. K. Ankamma

Professor & Officer In-Charge, AES



Education Qualifications: Doctor of Philosophy (Mechanical Engineering)
Specialization: Metal Forming

ADDRESS:

- B – Block -Room No: 101

JNTUH ID:

7331-150422-101654

EMAIL:

kankamma_mct@mgit.ac.in

DATE OF JOINING:

13-10-1999

EXPERIENCE - 22 Years

- Teaching - 22
- Research -10

SUMMARY:

- Publications - 28
- Conferences - 04
- Books – 03
- Honors/Awards - 01

EVENTS:

- Organized - 04
- Attended - 40

LET'S MEET ON SOCIAL:

- <https://www.facebook.com/mgithyderabad>
- <https://www.instagram.com/mgithyderabad>
- <https://www.linkedin.com/company/mgithyderabad>
- <https://twitter.com/MGIThyderabad>

Membership of Professional Bodies:

1. Fellow of institution of Engineers, FIE (F-1276308)
2. Indian Society for Technical Education - Life Member ISTE, (LM – 35553)

Responsibilities Held at Institution Level:

1. Officer In-charge, Academic and Examinations Section from 01-03-2012 to till date.

Responsibilities Held at Department Level:

1. Member, Project Review Committee (UG and PG)

Research Guidance:

1. UG – 30
2. PG - 08

Honors/Awards Received:

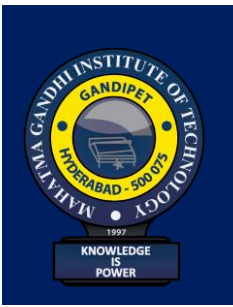
1. Railway Board's 1st Prize (Gold Medal) for the paper titled 'Effect of Trace Elements (Boron and Lead) on the Properties of Gray Cast Iron' published in the Journal of the Institution of Engineers (India): Series D, Vol. 95, Issue 1 (2014) pp. 19-26.

Courses Handled at Under Graduate /Post Graduate Level:

- UG: Engineering Drawing, Production Technology, Manufacturing Technology, Product Design and Assembly Automation, Motion Control Design
- PG: Applied Industrial Pneumatics

Publications:

1. K. Ankamma, PVR Ravindra Reddy, S. Nagarjuna and N. Eswara Prasad, "Effect of aging on the drawability characteristics of Nimonic C - 263 alloy sheet by numerical simulation", Transactions of Indian Institute of Metals, Vol. 63 (2010) pp. 723-738.
2. P. Ravindra Babu, K. Ankamma, T. Siva Prasad, AVS Raju and N. Eswara Prasad, "Effect of burnishing parameters on the surface characteristics, microstructure and micro-hardness in EN series steels", Transactions of Indian Institute of Metals, Vol. 64 (2011) pp. 565-573.
3. K. Ankamma, AK Singh, KS Prasad, G. Chandra Mohan Reddy, M. Komaraiah, and N. Eswara Prasad, "Effects of aging and sheet thickness on the room temperature deformation behaviour and in-plane anisotropy of cold rolled and solution treated Nimonic C - 263 alloy sheet", International Journal of Materials Research, Vol. 102 (2011) pp. 1274-1285.
4. K. Ankamma, PVR Ravindra Reddy, N. Eswara Prasad, S. Nagarjuna, G. Chandra Mohan Reddy and M. Komaraiah, "Numerical simulation for the determination of Limit Strains of a cold rolled and solution treated Nimonic C – 263 alloy sheet", Bulletin of Materials Science, Vol. 34 (2011) pp. 515-524.



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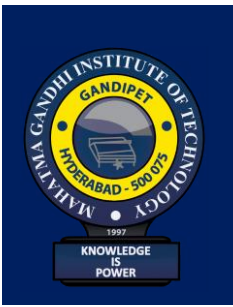
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5. K. Ankamma, DVV Satyanarayana, N. Eswara Prasad, RajdeepSarkar, G. Chandra Mohan Reddy and M. Komaraiah, "Effect of aging on the work hardening behaviour of a cold rolled Nimonic C - 263 alloy", Materials Science and Technology, Vol. 27 (2011) pp. 1333-1340.
6. K. Ankamma, DVV Satyanarayana, G. Chandra Mohan Reddy, M. Komaraiah and N. Eswara Prasad, "In-plane anisotropy in tensile deformation and its influence on the drawability of Nimonic C – 263 alloy sheets", SADHANA - Academy proceedings in Engineering sciences, Vol. 36 (2011) pp. 223-249.
7. K. Ankamma, PVR Ravindra Reddy, S. Nagarjuna, G. Chandra Mohan Reddy, M. Komaraiah and N. Eswara Prasad, "Numerical simulation for the determination of Limit Drawing Ratio of a cold rolled and solution treated Nimonic C - 263 alloy sheet", International Journal of Materials Research, Vol. 102 (2011) pp. 323-330.
8. P. Ravindra Babu, K. Ankamma, T. Siva Prasad, AVS Raju and N. Eswara Prasad, "Optimization of Burnishing parameters and determination of select surface characteristics in Engineering materials", SADHANA - Academy proceedings in Engineering sciences, Vol. 37 (August 2012) pp. 503-520.
9. P. Ravindra Babu, K. Ankamma, T. Siva Prasad, AVS Raju and N. Eswara Prasad, "Optimization of Burnishing Parameters by DOE and Surface Roughness, Microstructure and Micro Hardness Characteristics of AA6061 Aluminium Alloy in T6 Condition", International Journal of Engineering Research and Applications, Vol. 2 (2012) pp. 1139-1146.
10. K. Ankamma "Effect of Bismuth in Trace level on the properties of Gray cast Iron", International Journal of Engineering Sciences & Research Technology, Vol. 2, (August 2013) pp. 2166-2169.
11. K. Ankamma, A. K. Singh, K. S. Prasad, G. Chandra Mohan Reddy, N. Eswara Prasad, "Determination of yield locus of a cold rolled and solution treated Nimonic C - 263 alloy sheet using Knoop micro hardness indenter", Transactions of Indian Institute of Metals, Volume 67, January 2014, pp-531–539.
12. K. Ankamma "Effect of Trace elements (Boron and Lead) on the properties of Gray Cast Iron", Journal of the Institution of Engineers (India): Series D, Vol. 95, Issue 1 (2014) pp. 19-26: Railway Board's 1st Prize (Gold medal)
13. C. Sucharitha, K. Ankamma, "Analysis of functionally graded carbon nanotube reinforced composite cylindrical shells", International Journal of Management, Technology And Engineering, Volume 8, Issue V, May 2018 pp. 242-251.
14. K. Ankamma, "Nickel Based Superalloys – Properties and Their Applications", International Journal of Management, Technology and Engineering, Volume 8 (May 2018) pp. 268-277.
15. P. Nagasekhar Reddy, K. Ankamma "Realization of Hybrid Grid with Photovoltaic cell and wind energy system using SIMULINK", International Journal of Management, Technology And Engineering, Volume 8 (December 2018) pp. 907-912.
16. J Pavan kumar, K Ankamma Rao, K Sudhakar Reddy & S Madhava reddy "Motion analysis of piston with variation of pressure of hydraulic oil using H-simulator", Global Journal of Engineering Science And Researches, December 2018 pp.145-153.
17. Aditya M V Kasyap, K. Ankamma Rao " A review Paper on Architecture and working of Internet of Things", Journal of Emerging Technologies and Innovative Research (JETIR), June 2019, Volume 6, Issue 6, pp. 71-74.
18. K Ankamma Rao and J Pavan Kumar, "Design of PLC-based Hydraulic System using autoSIM-200", Science, Technology and Development, December 2019 pp.745-748.

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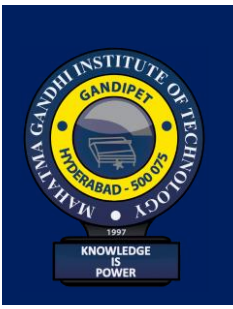
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- <https://www.linkedin.com/company/mgithyderabad>
- <https://twitter.com/MGIThyderabad>

19. K. Ankamma, P.V.R. Ravindra Reddy, “Use of Orthogonal Arrays in Design of a Fuzzy Logic Controller to Predict the Proof Stress for the TIG Welded Al-65032”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), May 2020 pp. 996-1001.
20. Katakam Prashanth, K. Ankamma, “Design and development of Six-Legged Robot for Mine Rescue System”, Science, Technology and Development, May 2020 pp.121-128.
21. D. Laxmi Tejeswini, Dr.S.Madhava Reddy, Dr.K.Ankamma Rao, “GSM and Arduino based on Autonomous Surface Monitoring Robot for Sustainable Sanitation and Water Management”, Advanced Science Letters E-ISSN:1936-7317, Volume 26, Number 5, May 2020, pp – 449-455.
22. K Ankamma Rao, NS Abhiram, PSS Sumanth, K Sudhakar Reddy, “Design of a Prototype Air Conditioning System in Four Wheeler Using Suspension System”, Journal of Shanghai Jiatong University, Volume 16, Issue 9, September 2020 pp. 676-682.
23. K Ankamma, K Sudhakar Reddy, S Madhava Reddy, J Pavan Kumar, “Sequencing of PLC-based pneumatic system using Autosim-200”, Science, Technology and Development, Volume 8, Issue XII, September 2020, pp. 745-748.
24. A Madhu Babu, K Ankamma Rao, K Sudhakar Reddy, “Design of Prototype Curry Making Machine”, Journal of Shanghai Jiatong University, Volume 16, Issue 10, October 2020 pp. 248-257.
25. S. Madhava Reddy, K Ankamma Rao, K Sudhakar Reddy, J Pavan Kumar, “Effect of Process Parameters on Temperature of Al Alloy”, International Journal of Engineering Research & Technology (IJERT), Vol. 10 Issue 03, March-2021, pp. 460-463.
26. Kandula Ankamma, J Pavan Kumar, “Design and Simulation of Bonding Press by using Hydraulic system”, Journal of Shanghai Jiaotong University, Volume 17, Issue 4, April – 2021, pp. 48-54.
27. K. Ankamma, P.V.R. Ravindra Reddy, “Analysis of Effect of Stagger and Feed Rate on Ovality of Flow Formed tube using ANOVA”, Journal of Xi'an University of Architecture & Technology, Volume XIII, Issue 4, April, 2021, pp. 296-302.
28. C. Sucharitha, K. Ankamma Rao, “Mechanical modelling of Wind Turbine speed and Pitch angle for different speed profiles”, Journal of Information and Computational Science, Volume 11, Issue 6 - June, 2021, pp. 170-179.

Conferences:

1. A paper titled “Energy recovery from waste and implications for greenhouse gases and global warming” presented at the International Conference on Operational Research Society of India (ORSI 2010 – ORURD) held at Thiagarajar College of Engineering, Madurai – 625 015. Tamil Nadu, India 15- 17 December 2010.
2. A paper titled “A Review on Welding difficulties of Aluminium alloys” presented at National Conference on Advanced Mechanical Engineering & Renewable Energy organized by Chaitanya Bharathi Institute of Technology, Hyderabad during 25 – 26 March 2013.
3. A paper titled “Material Characterization of OT 4-1” presented at national conference on “Material Characterization” organized by Institution of Engineers (India), Hyderabad during 22-24 January 2009.
4. A paper titled “Evaluation of Formability of Titanium Alloy (OT 4-1)” presented at National Conference on Advanced Materials & Manufacturing Technology organized by JNTU, Hyderabad during 8 – 9 March 2004.

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No. of Books/Chapter Published with details:

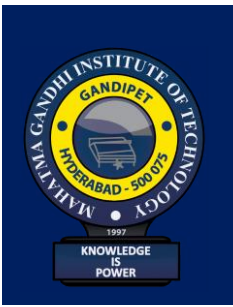
1. A monograph titled “Effect of Trace Elements on the Properties of Gray Cast Iron” was published by LAP LAMBERT Academic publishing, Germany in August 2014. (ISBN: 978-3-659-58818-1) and was available for online sale at <https://www.lap-publishing.com/catalog/details//store/gb/book/978-3-659-58818-1/effect-of-trace-elements-on-the-properties-of-gray-cast-iron>
2. A monograph titled “Burnishing of Engineering Materials: Process Optimization (DOE) and Maps” was published by LAP LAMBERT Academic publishing, Germany in October 2012. (ISBN: 978-3-659-28614-8) and was available for online sale at <https://www.morebooks.de/search/gb?utf8=%E2%9C%93&q=burnishing>
3. A monograph titled “Deformation and Drawability of Nimonic Superalloy C-263: Effects of microstructure, texture, sheet thickness and aging condition” was published by LAP LAMBERT Academic publishing, Germany in October 2011 (ISBN: 978-8465-2368-1) and was available for online sale at <https://www.morebooks.de/store/us/book/deformation-and-drawability-of-nimonic-superalloy-c-263/isbn/978-3-8465-2368-1>

Events Organized:**FDPs/STTPs:**

1. Recent Trends in Mechatronics and Automation
2. Recent Advances in Mechanical Engineering: A Research Perspective
3. Recent Advances in Renewable Energy & Energy Efficiency Technologies
4. Recent Trends in Manufacturing
5. Advanced Optimization Techniques for Research Problem Solving
6. STTP on Recent Advances in Micro Electro Mechanical Systems (MEMS), Mechatronics and Their Applications for Future Challenges

Events Attended:**FDPs/STTPs:**

1. FDP on IPR Awareness and Patent Prosecution, CMREC, Hyderabad
2. FDP on Recent Trends in Robotics and Intelligent Manufacturing, Lendi college of Engineering, Vijayanagaram
3. FDP V2 Lecture 1: Online course planning and design. North Storm Academy
4. OUTCOME BASED EDUCATION SYSTEM, Lendi college of Engineering, Vijayanagaram
5. ARTIFICIAL INTELLIGENCE-FDP, CMREC, Hyderabad
6. Emerging Technologies in Robotics, Mallareddy Engg College, Hyderabad (Autonomous)
7. ATAL - FDP on Robotics, Institute of Engg and Tech, Kurukshetra University, Haryana
8. Disruptive Technologies in Mechanical Engineering, SNIST, Hyderabad
9. Industry 4.0 - A Vision of Design and Manufacturing, CBIT
10. Advancements in Manufacturing and Optimization Techniques, Jayamukhi Institute of Technological Sciences
11. Recent Trends in Mechatronics and Automation, MGIT, Hyderabad
12. Recent Advances in Mechanical Engineering: A Research Perspective, MGIT, Hyderabad



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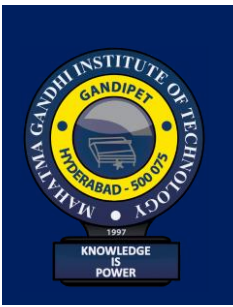
13. Recent Advances in Renewable Energy & Energy Efficiency Technologies, MGIT, Hyderabad
14. Recent Trends in Manufacturing, MGIT, Hyderabad
15. Advanced Optimization Techniques for Research Problem Solving, MGIT, Hyderabad
16. STTP on Recent Advances in Micro Electro Mechanical Systems (MEMS), Mechatronics and Their Applications for Future Challenges, MGIT, Hyderabad
17. Material Processing & Heat Treatment (MPHT-2021)- CSIR Integrated Skill Training Initiatives, National Metallurgical Laboratory, Jamshedpur
18. Three Day FDP Program on Advances in Finite Element Methods, JNTUH, Hyderabad
19. Capacity Building in e-Learning era, Ganpat University

Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lecture:

1. Refresher courses - 20
2. Webinars - 90
3. Seminars - 12
4. Workshops - 10
5. Guest Lectures - 02

Online Certifications:

1. Fundamentals of Manufacturing Engineering - NPTEL
2. Automation in Manufacturing - NPTEL
3. Joining Technologies for Metals - NPTEL
4. Materials Science: 10 Things Every Engineer Should Know, University of California, Davis - Coursera
5. Supply Chain Analytics Essentials, Rutgers the State University of New Jersey - Coursera
6. Digital Manufacturing & Design, University at Buffalo - Coursera
7. Intelligent Machining, University at Buffalo - Coursera
8. Mechanics of Materials I: Fundamentals of Stress & Strain and Axial Loading, Georgia Institute of Technology - Coursera
9. Digital Thread: Components, University at Buffalo - Coursera
10. Advanced Manufacturing Process Analysis, University at Buffalo & The State University of New York - Coursera
11. Digital Thread: Implementation, University at Buffalo & The State University of New York - Coursera
12. Managing Emotions in Times of Uncertainty & Stress, Yale University - Coursera
13. Teaching with Peer Review Using Eduflow - Coursera
14. Introduction to Microsoft Excel - Coursera
15. COVID-19 Contact Tracing - Coursera
16. Create a Resume and Cover Letter with Google Docs - Coursera
17. Finding, Sorting, & Filtering Data in Microsoft Excel - Coursera
18. Getting Started with Adobe Spark - Coursera
19. How to Use Lookup Reference Math and Text Functions in Excel - Coursera
20. Introduction to Google Docs - Coursera



21. Use Interactive Features on Google Slides - Coursera
22. Using Basic Formulas and Functions in Microsoft Excel - Coursera

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