

Dr. G. Rakesh Kumar

Assistant Professor



Education Qualifications: Doctor of Philosophy (Mechanical Engineering)
Specialization: Manufacturing

ADDRESS:

- B – Block -Room No: 102

JNTUH ID: 6429-171013-143509

EMAIL:

grakeshkumar_mct@mgit.ac.in

DATE OF JOINING:

01-008-2018

EXPERIENCE - 8

- Teaching - 4
- Research -4

SUMMARY:

- Publications - 13
- Conferences - 8

EVENTS:

- Organized - 1
- Attended - 13

LET'S MEET ON SOCIAL:

- <https://www.researchgate.net/profile/Kumar-Gunda>
- <https://scholar.google.com/citations?user=IezzAgAAAAJ&hl=en>
- <https://www.facebook.com/kumarrakeshgunda>

Responsibilities Held at Institution Level:

1. Anti-ragging
2. Campus Monitoring

Responsibilities Held at Department Level:

1. Autonomous Coordinator
2. NBA Files (Criteria-5, Publications)

Research Guidance:

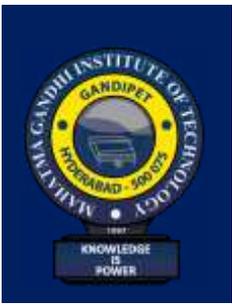
1. Two M-Tech students (pursuing)
2. Three B-Tech Project batches completed and one batch pursuing

Courses Handled at Under Graduate /Post Graduate Level:

- **UG:** Engineering Mechanics, Dynamics of Machinery, Un-conventional Machining Process, Additive Manufacturing Technology
- **PG:** Research Methodology & IPR

Publications: (Total Impact Factor: 17.82) (Citations: 125)

1. Venkata Kasi Viswanadham Kolipakula, Ravinder Reddy Pinninti, Rakesh Kumar Gunda, Chandra Sekhara Kumar Aduru, Tribological behaviour of sic and al2o3 filled glass-epoxy composite, Proceedings of the Institution of Mechanical Engineers, Part J, (In press) doi.org/10.1177/13506501221085543 **(IF: 1.674) (SCI)**
2. Rakesh Kumar Gunda, Suresh Kumar Reddy Narala, “Evaluation of tribological studies of solid lubricants on Ti-6Al-4V alloy”, 10th Balcantrib Proceedings (ISBN: 978-86-6060-073-0) (Serbian Tribology Society)
3. Uma Maheshwera Reddy Paturi, Sumanth Methuku Sumanth S. Siripragada, Yeshwanth Sangishetty, Rakesh KumarGunda, “Finite element simulations of machinability parameters in turning of Inconel 718”, Materials Today Proceedings. Volume 38, Part 5, 2021, Pages 2658-2663 doi.org/10.1016/j.matpr.2020.08.275 **(Scopus)**
4. Saikiran Chary, Nalbanda Kalyan Pamidimukkala, Rakesh Kumar Gunda, Uma Maheshwera Reddy Paturi, “Effect of minimum quantity solid lubrication (MQSL) parameters on cutting force and temperature during turning of EN31 steel”, Materials Today Proceedings. Volume 38, Part 5, 2021, Pages 3314-3319 doi.org/10.1016/j.matpr.2020.10.119 **(Scopus)**
5. Rakesh Kumar Gunda, Suresh Kumar Reddy Narala, “Analysis of electrostatic solid lubricant spray process parameters during turning Ti-6Al-4V alloy”, Journal of Engineering Manufacture (SAGE), Volume: 234 issue: 11, page(s): 1402-1414 doi.org/10.1177/0954405420918475 **(IF: 2.610) (SCI)**
6. G Rakesh Kumar, N Sai Kiran Charry, P.Kalyan, K.P Yeshwanth, Hitesh Dammu, A Prathik, T. Ajay, Sachin Jacob Abraham “Performance assessment of MQSL process parameters on surface roughness and cutting temperature during turning EN31 steel”, Materials Science and Engineering, (In Press) doi.org/10.1088/1757-899X/895/1/012003 **(Scopus)**



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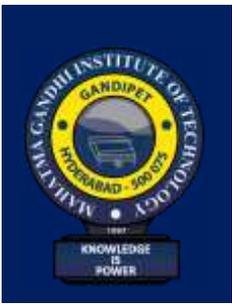
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- <https://scholar.google.com/citations?user=IezzAgAAAAJ&hl=en>
- <https://www.facebook.com/kumarrakeshgunda>

7. Rakesh Kumar Gunda, Suresh Kumar Reddy Narala, “Tribological Studies of EN31 and Ti-Al-4V alloy materials using pin-on-disc tribometer”, Materials Today Proceedings Volume 28, Part 2, 2020, Pages 1216-1220 doi.org/10.1016/j.matpr.2020.01.509 (Scopus)
8. G. Rakesh Kumara, N Suresh Kumar Reddyb, KVK Viswanadhama, G Sreenivasulu Reddya, “Experimental investigation to study the performance of solid lubricant in turning EN31 and Ti-Al-4V alloy materials”, Materials Today Proceedings Volume 28, Part 2, 2020, Pages 1227-1230 doi.org/10.1016/j.matpr.2020.01.528 (Scopus)
9. Rakesh Kumar Gunda, Suresh Kumar Reddy Narala, “Evaluation of friction and wear characteristics of electrostatic solid lubricant at different sliding conditions”, Surface and Coatings Technology (Elsevier), 332, (2017), 341-350 doi.org/10.1016/j.surfcoat.2017.08.073 (IF: 4.158) (SCI)
10. Rakesh Kumar Gunda, Suresh Kumar Reddy Narala, “Electrostatic high velocity solid lubricant machining system for performance improvement of turning Ti-6Al-4V alloy”, Journal of Engineering Manufacture (SAGE) Volume: 233 issue: 1, page(s): 118-131, doi.org/10.1177/0954405417703432 (IF: 2.610) (SCI)
11. Rakesh Kumar Gunda, Suresh Kumar Reddy Narala, Tribological studies to analyze the effect of solid lubricant particle size on friction and wear behaviour of Ti-6Al-4V alloy, Surface and Coatings Technology (Elsevier) 308, (2016) 203-212, doi.org/10.1016/j.surfcoat.2016.06.092 (IF: 4.158) (SCI)
12. Rakesh Kumar Gunda, Suresh Kumar Reddy Narala, H.A. Kishawy A novel technique to achieve sustainable machining system, Procedia CIRP (Elsevier), 40, 30-34, 2015. doi.org/10.1016/j.procir.2016.01.045 (Scopus)
13. A Marques, Suresh Kumar Reddy Narala, AR Machado, Rakesh Kumar Gunda, Saravan Kumar Josyula, RB Da Silva, MB Da Silva, Performance assessment of MSQ: Minimum quantity solid lubricant during turning of Inconel 718, Journal of Engineering Manufacturing (SAGE), Volume: 231 issue: 7, page(s): 1144-1159, doi.org/10.1177/0954405415592128 (IF: 2.610) (SCI)

Conferences:

International:

1. Venkata Kasi Viswanadham Kolipakula, Ravinder Reddy Pinninti, **Rakesh Kumar Gunda**, Chandra Sekhara Kumar Aduru, Tribological characteristics of metal gfrp composite filled with sic and al2o3 particles, 10th Balcantrib Proceedings (ISBN: 978-86-6060-073-0) (Serbian Tribology Society).
2. **Rakesh Kumar Gunda**, Suresh Kumar Reddy Narala, “Evaluation of tribological studies of solid lubricants on Ti-6Al-4V alloy”, 10th International Conference on Tribology, 20-22 May 2021, Belgrade, Serbia.
3. **Rakesh Kumar Gunda**, Suresh Kumar Reddy Narala, “Tribological analysis of different materials using pin-on-disc tribometer”, IMMT 2019, November 20th – 22nd, Dubai, UAE
4. **G. Rakesh Kumara**, N Suresh Kumar Reddyb, KVK Viswanadhama, G Sreenivasulu Reddya, “Experimental investigation to study the performance of solid lubricant in turning two different materials”, IMMT 2019, November 20th – 22nd, Dubai, UAE
5. **Rakesh Kumar Gunda**, Suresh Kumar Reddy Narala, “Evaluation of friction and wear characteristics of electrostatic solid lubricant at different sliding conditions”, 44th ICMCTF, 24th-28th April 2017, San Diego, California, USA.
6. **Rakesh Kumar Gunda**, Suresh Kumar Reddy Narala, “New cooling approach for tool life improvement with minimal quantity solid lubricant machining of Ti-6Al-4V alloy”, 6th International & 27th, AIMTDR, 2016, Pune, India.
7. **Rakesh Kumar Gunda**, Suresh Kumar Reddy Narala, H.A. Kishawy A novel technique to achieve sustainable machining system, 13th Global Conference on



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Sustainable Manufacturing, 16th-18th September 2015, Ho-Chi Minh City, Vietnam.

8. J. Sravan Kumar, **G. Rakesh Kumar** and N. Suresh Kumar Reddy, “A Study for Selection of Cutting Parameters in Turning Process using Decision Making Method”, 2014, ICARIMMIEM-2014, Warangal, India.

National:

1. **Rakesh Kumar Gunda**, Suresh Kumar Reddy Narala, Tribological studies of solid lubricants on ball-on-disc tribometer, Proceedings of 2nd DPLC Conference, 2016, BITS-Pilani Hyderabad Campus, Hyderabad, India.
2. Syed Adil, **Rakesh Kumar G**, N Suresh Kumar Reddy, Study of tribological characteristics of tungsten carbide and EN-31 steel combination under different environmental conditions, Proceedings of 2nd DPLC Conference 2016, BITS-Pilani Hyderabad Campus, Hyderabad, India.
3. Bhasker Reddy Marri, Meghana M, **Rakesh Kumar Gunda**, Suresh Kumar Reddy Narala, Optimization of milling using simulated annealing and artificial neural networks, Proceedings of 2nd DPLC Conference, 2016, BITS-Pilani Hyderabad Campus, Hyderabad, India.
4. **Rakesh Kumar Gunda**, Raja Narendra Reddy, Role of Automotive Air Spoiler, National conference Advance Research on Mechanical Engineering, 2012, KITS Huzurabad, Karimnagar, India.

Events Organized:

FDPs/STTPs:

1. 6 Days Online STTP on Recent Advances in Micro Electro Mechanical Systems, (MEMS), Mechatronics and their Applications for Future Challenges (**Organizing Committee Member**)

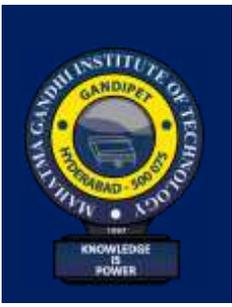
Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:

1. Delivered a lecture on “Developments of Tribology in Manufacturing Technology” in Jayamukhi Institute of Technological Sciences on 30th June 2021
2. Delivered a lecture on “Tribology in Manufacturing Technology” in Siddhartha Institute of Engineering & Technology on 24th January 2020
3. Delivered a lecture on “Tribological Studies on Solid Lubricants” in BITS Pilani Hyderabad Campus in “A Two Days Workshop on Tribology” from 15th-16th- November 2018.

Events Attended:

FDPs/STTPs:

1. Recent Advances in Micro Electro Mechanical Systems (MEMS), Mechatronics and Their Applications for Future Challenges, Mahatma Gandhi Institute of Technology (Online), 2nd to 7th November 2020
2. Research Opportunities and Challenges in Manufacturing Sector, Shri Vithal Education & Research Institute’s College of Engineering, Pandharpur, 1st – 6th June 2020
3. Effective Technical Report Writing using LaTeX, Mahatma Gandhi Institute of Technology (Online), 8th - 9th June 2020
4. Recent advances in Mechanical Engineering, Bharat Institute of Engineering and Technology (Online), 22nd – 26th June 2020
5. E Quiz on Modern Machining Process, Kakatiya Institute of Technology & Science (Online), 22nd June 2020
6. Advancements in Manufacturing and Optimization Techniques, Jayamukhi Institute of Technology and Science (Online), 22nd – 26th June 2020



7. Quiz on Machine Tools and Metrology, Vignan Bharathi Institute of Technology (Online), 24th June 2020
8. Emerging Technology in Manufacturing, VEMU Institute of Technology (Online), 20th June 2020
9. Imminent Trends in Mechanical Engineering, Kommuri Pratap Reddy Institute of Technology, 29th - June to 3rd July 2020
10. Recent Development in Mechanical Engineering, Kakatiya Institute of Technology & Science 7th – 11th July 2020
11. Outcome Based Education Software, Vedulife Software Solutions (Online), 16th July 2020
12. Significance of MATLAB in Applications of Emerging Tech., CBIT, 26th June 2019
13. Advanced Engineering Optimization Through Intelligent Techniques, Sardar Vallabhai National Institute of Technology, Surat, 23rd to 27th September 2013

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