

## Faculty Publications:

### Dr. Vasantha Kumar

1. **Vasantha Kumar**, Ahammed Bilal, Abdul Rahiman Rasheeq B L, Hasan Ashiq, and Mohammed Hashir C A, “*Design and Fabrication of Electric Carrier Vehicle*”, Gradiva Review Journal, Vol 9, May 2023, pp 1025-1031, Scopus Indexed.
2. Gokuldas M, Vinod Kumar N, **Vasantha Kumar**, Ahamad Azweer, B M Muzeeb, and Ismail Muzammil, “*Design and Fabrication of Low Cost Electric Operated Tricycle Cart for Village Farmers* ”, Gradiva Review Journal, Vol 9, May 2023, pp 1397-1404, Scopus Indexed.
3. Arvind Kumar, Manjunath Ichchangi, **Vasantha Kumar**, Ahamed Sheesh Rawah, Azeez Mohammad Ayaz, Ziad Ahmed and Abdul Khader Sajjid A M, “*Smart Beach Cleaning Machine*”, Gradiva Review Journal, Vol 5, May 2023, pp 1454-1460, Scopus Indexed.
4. Manjunath Ichchangi, Arvind Kumar, **Vasantha Kumar**, Mohammed Shakir Ali, Imthiyaz Ahammad, Niyaz Ahammad and Nazeeb Ahammed Shafeeq, “*Solar Powered Chicken Shop Waste Crusher and Fertilizer Making Machine*”, Gradiva Review Journal, Vol 5, May 2023, pp 1450-1453, Scopus Indexed.
5. M Mohammed Raqueeb, Saiyyad Mohammad Thamzeem, Safwan Ahmad Rifay, Sateeshkumar Kanakannava and **Vasantha Kumar** “*Bluetooth Operated Oil Skimming Machine for Marine Oil Spills*”, Gradiva Review Journal, Vol 5, May 2023, pp 1442-1449, Scopus Indexed.
6. **Vasantha Kumar** , C. M. Ramesha, V. Sharanraj, Sadashiva M and Kavya K, “*In-Vitro Biocompatibility Study and Comparison of Magnesium AZ31 and PEEK 450G Biomaterials Used as Cardiovascular Stent Implants*”, Journal of Mines Metals & Fuels, Vol 71, April 2023, pp 66-72, Scopus Indexed.
7. Gokuldas M, **Vasantha Kumar**, and Ibrahim Khaleel, “*Design and Fabrication of Simple Solar Grass Cutter*” International Journal of Scientific Research in Science, Engineering and Technology, Vol 9, August 2022, pp 320-324.
8. V. Sharanraj, C.M Ramesha and **Vasantha Kumar**, “*Alumina: as a Biocompatible Biomaterial used in Dental Implant*”, Journal of Dental Applications, Vol 8, August 2022, pp 472-476.
9. V. Sharanraj, C.M Ramesha, T. Anil Kumar, Abilash.S and **Vasantha Kumar**, “*Tribological Behaviour Study of Zirconia Toughened Alumina Bio-Inert Biomaterial Used in Total Hip Joint Implant*”, Journal of Dental Applications, Vol 8, July 2022, pp 247-263.
10. Santhosh A N, Dr. Aprameyan S, Suresh Erannagari and **Vasantha Kumar**, “*Influence of Alloying Element and Ageing on Microstructure and Dry Sliding Wear Behaviour of Cu-Zn-Xni Alloy*,” Journal of Mines Metals & Fuels, July 2022, pp 1-23, Scopus Indexed.
11. Manjunath Ichchangi, **Vasantha Kumar**, Mohammed Shaizaad, Mohammed Anaz Abubakar, Mahammad Junaid and Shaikh Afrid, “*Artificial Intelligence Assisted Solar Biomass Hybrid Dryer for Drying Cocoa*” International Journal of Scientific

- Research in Science, Engineering and Technology, Vol 9, July 2022, pp 38-42.
12. Arvind Kumar, **Vasantha Kumar**, Manjunath Ichchangi, D Dritha Kumar, Dinakara and Prashanth Kutinha, “*Automatic Solar Operated Lake Cleaning Floating Machine*” International Journal of Scientific Research in Science, Engineering and Technology, Vol 9, July 2022, pp 32-37.
  13. Vinod Kumar, **Vasantha Kumar**, Abubakkar Khan Shired, Rashid Shaikh, Riyaz Ahmad Pattanad and Wahid Ahmed Dindawad, “*Portable Electric Ploughing and Levelling Machine*” International Journal of Scientific Research in Science, Engineering and Technology, Vol 9, July 2022, pp 43-47.
  14. Prithviraj M, **Vasantha Kumar**, Azar Dhanish, Mehboobsab Pardewale, and Patel Omair Javid, “*Design and Fabrication of Trailer disc Braking System*” International Journal of Scientific Research in Science, Engineering and Technology, Vol 9, July 2022, pp 48-54.
  15. **Vasantha Kumar**, Moideen Arshad, Ibrahim Safeek, Mohammed Aftab, and Tanveer Ali, “*Design and Fabrication of Electric Tiller Machine with Fertilizer Dispenser for Arecanut and Coconut Plantation*”, International Journal of Mechanical Engineering, Vol 6, Nov- Dec 2021, pp 1291-1297, Scopus Indexed.
  16. **Vasantha Kumar**, Mohammad Rameez, Pavan Kumar, Ibrahim Apraz, and Muhammad Musharaf, “*Design and Fabrication of Hybrid Cleaning Rover*”, International Journal of Mechanical Engineering, Vol 6, Nov 2021, pp 1284-1290, Scopus Indexed.
  17. **Vasantha Kumar**, Aboobakkar Siddiq Salman, Mahammad Savad, Mohammed Thashreef, and Nizamudeen, “*Design and Fabrication of Solar Operated Vegetable Cart*”, International Journal of Engineering Research in Mechanical and Civil Engineering, Vol 8, Nov 2021, pp 58-62,
  18. Ashok Kumar, Mohammad Rafi Kerur and **Vasantha Kumar**,” *Adhesive Wear Studies of Filler Filled Polymer Based Composites-A Systematic Review*”, International Journal of Mechanical Engineering, Vol 6, Dec 2021, pp 1268-1283, Scopus Indexed.
  19. V.Sharanraj, C.M Ramesha and **Vasantha Kumar**, “*Zirconia: as a biocompatible biomaterial used in Dental implants*” Advances in Applied Ceramics, Dec 2020, pp 1-7, DOI: 10.1080/17436753.2020.1865094, Science Citation Index & Scopus Indexed.
  20. Sudheer S Sajjan, Mithun V Kulkarni and **Vasantha Kumar** “*Effect of Mechanical Properties on Multi Axially Forged LM4 Aluminium Alloy*” (Elsevier) -Materials Today Proceedings, Vol 24, May 2020, pp 1462-1467, Scopus Indexed.
  21. **Vasantha Kumar**, C.M Ramesha and V Sharanraj, “*Finite Element Analysis of Polyether ether ketone 450G Biomaterial Used as Cardiovascular Stent Implant*” Vessel plus, 3:35, April 2019, pp 1-13, Scopus Indexed.
  22. V.Sharanraj, C.M Ramesha and **Vasantha Kumar**, “*Finite Element Analysis of Zirconia Ceramic Biomaterials Used in Medical dental Implants*” Interceram, Vol 68, Issue 3, April 2019 (Springer), Scopus Indexed.
  23. Sudheer S Sajjan, Mithun V Kulkarni and **Vasantha Kumar**, “*Mechanical and Microstructural Properties of Multi Directionally Forged LM6 Aluminium Alloy*”

- Advances in Manufacturing Technology, (Springer) (Lecture Notes in Mechanical Engineering), April 2019, pp 131-139, Scopus Indexed.
24. **Vasantha Kumar**, C.M Ramesha and Sudheer S Sajjan, “*Biomechanical Analysis on Stent Materials used as Cardiovascular Implants*” AIP Proceedings, Vol 1943, Issue 1, and April 2018, Scopus Indexed.
  25. **Vasantha Kumar** and C.M Ramesha, “*Numerical Analysis of Coronary Stent for Diverse Materials*”, International Journal of Engineering Research and Technology, Vol 6, Issue 6, and June 2017.
  26. **Vasantha Kumar** and C.M Ramesha “*Non Linear Bending Analysis on Stent Materials used as Cardiovascular Implants*”, International Advanced Research Journal in Science, Engineering and Technology, Vol 4, Issue 5, and May 2017.
  27. **Vasantha Kumar** and Sudheer S Sajjan, “*Photo elastic and Finite Element Analysis of Circular Ring Subjected to Diametral Compression*”, International Journal of Engineering Research and Technology, Vol 6, Issue 11, and June 2017.

### **Dr.Imran Mokashi**

1. Sher Afghan Khan, JI Suheel, **Imran Mokashi**, Arvind Kumar, Mohammed Faheem, “*Impact of microjets on the flow of a duct*”, Materials Today: Proceedings, Elsevier, Volume 56, Part 5, 2022, Pages 2576-2585, [Scopus Indexed, 2022 cite score 3.2, Q2]
2. Sher Afghan Khan, **Imran Mokashi**, Arvind Kumar, JI Suheel, Mohammed Faheem, “*Active control behavior on the flow pattern in a circular duct*”, Materials Today: Proceedings, Elsevier, Volume 56, Part 5, 2022, Pages 2923-2931, <https://doi.org/10.1016/j.matpr.2021.10.357>. [Scopus Indexed, 2022 cite score 3.2, Q2]
3. Mohammed Khadem, AbidHusni Ibrahim, **Imran Mokashi**, Alaa Hasan Fahmi, Syed NoemanTaqi, V Mohanavel, Nazia Hossain, Isa Baba Koki, Ashraf Elfakhany, Mohammed AH Dhaif-Allah, Manzoore Elahi M Soudagar, Akheel Ahmed Syed, “*Removal of heavy metals from wastewater using low-cost biochar prepared from jackfruit seed waste*”, Biomass Conversion and Biorefinery, Springer Berlin Heidelberg, pp.1-10. Doi: 10.1007/s13399-022-02748-y [Web of Science Indexed, 2020 impact factor 4.987, Q3]
4. **Imran Mokashi**, Asif Afzal, Qasem Al-Mdallal, L Syam Sundar, Sher Afghan Khan, NurAzam Abdullah, Muhammad Hanafi Azami, C Ahamed Saleel, “*Effect of non-conjugate and conjugate condition on heat transfer from battery pack*”, Alexandria Engineering Journal, Elsevier, Volume 61, Issue 4, Pages 3131-3145, April 2022, [doi.org/10.1016/j.aej.2021.08.042](https://doi.org/10.1016/j.aej.2021.08.042). [Web of Science Indexed, 2021 impact factor 6.626, Q1]
5. **Imran Mokashi**, Asif Afzal, Sher Afghan Khan, NurAzam Abdullah, Muhammad Hanafi Bin Azami, RD Jilte, Olusegun David Samuel, “*Nusselt number analysis from a battery pack cooled by different fluids and multiple back-propagation modelling using feed-forward networks*”, International Journal of Thermal Sciences, Elsevier Masson, Volume 161, Pages 106738, March 2021, [doi.org/10.1016/j.ijthermalsci.2020.106738](https://doi.org/10.1016/j.ijthermalsci.2020.106738). [Web of Science Indexed, 2021 impact factor 4.5, Q1]
6. TM Khan, Manzoore Elahi M Soudagar, SV Khandal, Syed Javed, **Imran Mokashi**,

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  9. Asif Afzal, **Imran Mokashi**, Sher Afghan Khan, NurAzam Abdullah, Muhammad Hanafi Bin Azami, “*Optimization and analysis of maximum temperature in a battery pack affected by low to high Prandtl number coolants using response surface methodology and particle swarm optimization algorithm*”, *Numerical Heat Transfer, Part A: Applications*, Taylor & Francis, Volume 79, Issue 5, Pages 406-435, 22 Nov 2020, doi.org/10.1080/10407782.2020.1845560. [Web of Science Indexed, 2020 cite score 4.7, Q1]
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  12. Mohamed Kafeel Delvi, Manzoore Elahi M Soudagar, Hurmathulla Khan, Zahoor Ahmed, **Imran Mokashi** Shariff, “*Biodiesel production utilizing diverse sources, classification of oils and their esters, performance and emission characteristics: A research*”, *International Journal of Recent Technology and Engineering*, Blue Eyes Intelligence Engineering & Sciences Publication, Volume 8, Pages 1-8, July 2019, DOI: 10.35940/ijrte. B1183.0782S319. [Scopus Indexed, Q4]

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16. Sher Afghan Khan, **Imran Mokashi**, Abdul Aabid, Mohammed Faheem, “*Experimental research on wall pressure distribution in CD nozzle at mach number 1.1 for area ratio 3.24*”, International Journal of Recent Technology and Engineering, Blue Eyes Intelligence Engineering & Sciences Publication, Volume 8, Issue 2S3, Pages 971-975, July 2019, DOI: 10.35940/ijrte. B1182.0782S319. [Scopus Indexed, Q4]
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### **Prof.Arvind Kumar**

1. **Arvind Kumar**, Manjunath Ichchangi, Vasantha Kumar, Ahamed Sheesh Rawah, Azeez Mohammad Ayaz, Ziad Ahmed and Abdul Khader Sajjid A M, “*Smart Beach Cleaning Machine*”, Gradiva Review Journal, Vol 5, May 2023, pp 1454-1460, Scopus Indexed.
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### **Prof.Manjunath Ichchangi**

1. **Manjunath Ichchangi**, Arvind Kumar, Vasantha Kumar, Mohammed Shakir Ali, Imthiyaz Ahammad, Niyaz Ahammad and Nazeeb Ahammed Shafeeq, “*Solar Powered Chicken Shop Waste Crusher and Fertilizer Making Machine*”, Gradiva Review Journal, Vol 5, May 2023, pp 1450-1453, Scopus Indexed.
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## **Prof.Mohamed Kafeel Delvi**

1. **Mohamed Kafeel Delvi**, K Mohamed Kaleemulla “*Tensile and compressive mechanical properties of ZA27/ molybdenum disulfide, metal matrix composite*”“Research on Engineering structure and materials, Accepted 2023 March, .doi.org/10.17515/resm2022.583me1112 Scopus Indexed Q4.
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3. **Mohamed Kafeel Delvi** , Imran Mokashi, Vanasyam M , B S Abdul Rahiman , K Mohammad Khaif , Ibrahim Sufail G K , FayizUmmer , Muhammad Raees A “*Designing of Robust Economical Food Grade Plastic Recycling Unit*” Journal of Mechanical and Mechanics Engineering, Volume-8, Issue-3 (September-December, 2022) e-ISSN: 2581-3722.
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5. **Mohamed Kafeel Delvi**, KMohamed Kaleemulla “*Sliding Wear Behaviour of Al 7039/MoS<sub>2</sub>Metal Matrix Composite*” International Journal of Science, Technology, Engineering and Management–A VTU Publication, Vol: 3, No:1, pp: 8-14, 2021, ISSN: 2582-5844.
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## **Prof.Vinod Kumar N**

1. **Vinod Kumar N**, Vasantha Kumar, Abubakkar Khan, Rashid Shaikh., Riyaz Ahmad, Wahid Ahmad “*Portable Electric Ploughing and Levelling Machine*”, International Journal of scientific in Science, Engineering and Technology, ISSN:2395-1990.
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3. Abhijna B, **Vinod Kumar N**, Naveen S.P, Naveen Krishna. ‘*Experimental Behavioural study of spheroidal graphite iron Microstructure on corrosion,*’. International Conference on Advances in Engineering (ICAE-2-16).
4. Gokuldas M, **Vinod Kumar N**,Vasantha Kumar, Ahmed Azweer, B.M.Mujeeb, Ismail Mujammil, “*Design and Fabrication of low cost electric operated tricycle cart for village Farmers*” Gradiva Review Journal ISSN NO.0363-8057.

## **Prof.Gokuldas M**

1. **Gokuldas M**, Vasantha Kumar and Ibrahim Khaleel, “*Design and Fabrication of Simple Solar Grass cutter*”, International Journal of Scientific Research in Science, Engineering and Technology, Volume 9, August 2022, pp.320-324.
2. **Gokuldas M**, Vinod Kumar N, Vasantha Kumar, Ahmed Azweer, B M Mujeeb and Ismail Muzammil “*Design and Fabrication of low Cost Electric Operated Tricycle Cart for Village Farmers*” Gradiva Review Journal, Volume 9, Issue 5, May 2023, pp. 1397-1404.
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## **Prof.Prithviraj M**

1. **Prithviraj M**, Vasantha Kumar, Azar Dhanish , Mehboobsab Pardewale, Patel Omair Javid, “*Design and Fabrication of Trailer Disc Braking System*” , International Journal of Scientific Research in Science, Engineering and Technology, ISSN: 2395-1990 July-August-2022
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## **Dr.Sandeep Nambiar S**

1. **Sandeep Nambiar S**, BRN. Murthy ,Karthik B.M., Potty Srinivasa Rao, ‘*Annealing Temperature variations on Heusler alloy- An alloy to reduce Global warming impact of refrigerants*’, Journal Of Aeronautical Materials, Vol. 43,July 2023, pp. 155-165, Scopus Indexed



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4. **Nambiar S, S.**; B R N, M.;B M, K.; Sharma, S.; Prasanna, A.A. (2023). "Investigation on Magnetization, Magnetocalory, Magnetoresistance, and Electric Properties of Ni-Mn Based Heusler Alloy".Journal of Composite Science, Vol. 6, December 2022, pp.5, Scopus indexed
5. **Nambiar, S. S.**, Murthy, B. R. N., Sharma, S., Prasanna, A. A., & Chelvane, A. J. "Microstructure and mechanical properties of annealed quinary Ni-Mn-Sn-Fe-In Heusler alloy". Engineered Science, Vol.17, January 2022,pp.303-308, Scopus indexed
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7. Shivmurthy, R. C., Ravindranath, B. S., Santhosh, K. H., Murthy, B. R. N., & **Nambiar, S. S.** "Comparative Genomics Based Putative Drug Targets Identification, Homology Modeling, Virtual Screening and Molecular Docking Studies in Chlamydomophila Pneumoniae". Engineered Science, Vol.19, February 2022,pp.125-135, Scopus indexed
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