

# MAHAJAN KISHOR MADHUKAR

## ASSISTANT PROFESSOR

### OBJECTIVE

Utilizing knowledge and skill in the best possible ways and learn continuously the best practice to attain challenging position in an organization and achieve excellence. To become a successful professional in the field of Mechanical Engineering and to work in an innovative and competitive world. Serving the nation by providing quality engineers to the society.

### EXPERIENCE

#### INDUSTRIAL EXPERIENCE

**1. Krishna Forging, Pune (Supervisor):**

9 months (October 1996 - July 1997) after diploma.

Gained experience in forging operations and shop floor management.

**2. Greaves Gears Limited, Pune (Trainee Engineer):**

1-year tenure (September 2000 - September 2001) after degree.

Developed technical expertise in gear manufacturing and quality control.

**3. Trimurti Food Processing, Raver (Proprietor):**

Managed a food processing business for 8 years (2003 - 2011).

Acquired entrepreneurial skills in operations, production, and business development.

#### ACADEMIC EXPERIENCE

**1. Trimurti Institute of Technology, Jalgaon (Lecturer):**

Duration: 1 year (August 2012 - July 2013).

**2. GFs Godavari College of Engineering, Jalgaon (Assistant Professor):**

Duration: 11 years (August 2013 - Present).

### ACCOMPLISHMENTS

Working As president of Alumni association GF's GCOE

Working As social media coordinator for GF's GCOE Jalgaon

Working As M. Tech. and B. Tech. Project Coordinator

Working As M. Tech. and B. Tech. Paper Setter for DBATU

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### RESEARCH

“Design and Experimental Investigation of Solar Assisted Hybrid Dryer for Drying of Turmeric”

### PATENTS

Granted the patent (no. 384599) for an invention entitled, “**A Modified Mica Band Heater**”, as in accordance with the provisions of the patents act, 1970 by **Government of India**.

### CONTACT



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Godavari College of Engineering ,  
Bhusawal Road, Jalgaon-425003, (MS) India

### EDUCATION

**1993-96**

D.T.E. Mumbai

**Diploma in Mechanical engineering**

66.55 %

**1997-2000**

N.M.U. Jalgaon

**Bachelor of Engineering in Mechanical Engineering**

64.07%

**2014-2016**

K.B.C.N.M.U. Jalgaon

**Master of Engineering in Thermal Engineering**

71.03%

### SKILLS

- CNC Programming & Hands On
- Excellent organizational, planning and co-ordination skills
- Quick adaptability to emerging technology

### SUBJECTS TAUGHT

- ✓ Operatinal Research & Techniques
- ✓ Theory of Machine II
- ✓ Machine Design I
- ✓ Machine Design II
- ✓ Strength of Material
- ✓ Refrigeration and Air Conditioning

## BOOKS

Published a book entitled, “Product Life Cycle Management” for third year mechanical engineering students as per DBATU Syllabus, with **walnutpublication**, ISBN978-935911650-1

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## PAPER PUBLISHED

- [1] A paper on “**Band/Barrel Heater**”, published in, PRATIBHA: International Journal of Science, Spirituality, Business and Technology (IJSSBT), ISSN (Print) 2277-7261
- [2] Paper presented on "**Efficiency performance & mathematical investigation of flat plate collector by using formed tubes with different geometry**" in NACCTESTM 2017 at GF's G.C.O.E. Jalgaon
- [3] Published a research paper titled “**A Review On Performance Improvement Of Vortex Tube**” in IJARSMT, volume4,issue 1, Jan.2018
- [4] Published a manuscript entitled “**Energy Involvement In The Transportation Of Building Material**” in IJES, Special Conference (NACCTEST) Issue, April 2018, ISSN:2456-3463
- [5] Published a research paper titled A Review on “**Performance Improvement of Vortex Tube**” In IJARSMT, Voume 4, Issue 1, January 2018
- [6] “**Performance Improvement of Vortex Tube with Hollow Conical Valve**”, published in IJAERT, volume 6, issue 2, Feb. 2018. ISSN: 2348-8190.
- [7] A paper entitled “**Review on Design of Stationary Spindle Swaging Machine**” published in National Conference on Current Trends in Engineering, Science. Technology (NACCTEST)-2018.
- [8] A manuscript entitled “**Double Axis Welding Machine Attachment**” published in special conference issue, April 2018, ISSN: 2456-3463
- [9] Published a paper entitled “**Experimental Investigation of Vapour Absorption System**” in E Journal IJARIE, volume-4, issue-4, 2018, ISSN (O): 2395-4396.
- [10] Published a paper entitled “**A Review on Thermal Analysis of Solar Air Heater Using Different Shape Roughened Plates**” in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Volume 3, Issue 4, April 2021.
- [11] Published a paper on, “**A Review on Suspension operated Refrigeration System**” in IJSRD - International Journal for Scientific Research & Development| Vol. 8, Issue 11, 2021 | ISSN (online): 2321-0613.
- [12] A paper on, “**An Experimental Investigation for Air Conditioning Condenser to Increase the Heat Transfer Rate by Varying the Tube Arrangement**” published in Volume-2, Issue-8, August-2019 in International Journal of Research in Engineering, Science and Management.
- [13] A paper entitled, “**An Experimental and Psychrometric Analysis of Desiccant Wheel with Comparative Study of Dehumidification using Desiccant Material used in hybrid Air Conditioning**” Published in Volume-2, Issue-6, June-2019, of International Journal of Research in Engineering, Science and Management.
- [14] Presented a paper on **Review on Solar Biomass Hybrid Dryer**

## WORKSHOPS

1. “**Reducing Energy Bills of Pumps, Fans and Blowers**” held on 23-APRIL, 2015 at TAACT (Teknocrats Academy of Automation& Control Technology) Jalgaon.
2. One week STTP on “**Rapid Prototyping for Product Development**” at Prof. Ram Meghe Institute of Technology and Research, Badnera Amravti.
3. One day workshop on “**Digital Evaluation System (DES)**” organised by DBATU center Jalgaon.
4. Two days workshop on “**Pedagogy and Use of ICT in Class Room**” at GF's GCOE Jalgaon
5. One day workshop on “**Adoption of Product Design Engineer Mechanical**” courseware” jointly organised by Dr.Babasaheb Ambedkar Technological University lonere & NASSCOM at lonere.
6. One day workshop on “**LaTeX**”, organised by Godavari College of Engineering Jalgaon, Jan.2019.
7. Attended two days’ workshop on, “**IPR and Patenting Awareness of Invention and Innovation (WIPAI-2019)**” on 28 and 29 November 2019 at GF's Godavari College of Engineering Jalgaon.
8. Participated in webinar on “**How to Create Digital Content for Academic**” On date: 28th July 2020, Organized By Department of Mechanical Engineering, GF'S Godavari College of Engineering, Jalgaon.
9. Participated in “**Two Days Online Workshop on How to Prepare Research Outline?**” organized by IQAC Cell of D. M.E. S. Arts and Science College, Amalner on 26 and 27 March 2021.
10. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "**Five days FDP on Green Technology & Sustainability Engineering**" from 23/08/2021 to 27/08/2021 at Bharati Vidyapeeth College Of Engineering, Navi Mumbai.
11. Participated in 5 days, “**Drone Orientation and Drone Assembly**”,

in the **International Conference and Exhibition on Materials Engineering & Technology and Advances in Heat Treatment organized by ASM International**, India Chapter during November 2nd to 4th, 2022 at Bombay Exhibition Centre, Mumbai.

- [15] Published a paper on, "**Review on Solar Biomass Hybrid Dryer**", in Eur. Chem. Bull. 2023, 12 (S3), 7357 – 7375, DOI: 10.31838/ecb/2023.12.s3.814
- [16] Published a paper entitled, "**Experimental Investigation and Thermal Analysis of Round Structured Composite Wall Brick**", in IJRASET, Volume 11, Issue IX, September 2023.
- [17] Presented a paper entitled, "**Design fabrication and experimental analysis of solar tunnel by using various absorbing materials**", in National Conference on Innovation in Science, Engineering and Management organized by GH Raisonni Institute of Engineering and Business Management, Jalgaon during 25 to 26" August, 2023.
- [18] Published a paper entitled "**Pedal Operated Water Purifier**" in International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Volume 4, Issue 06, June 2022.
- [19] Published a paper entitled, "**A Review on Thermal Analysis of LED Heat Power Dissipation and Efficiency Analysis**", in IJRASET, Volume 11, Issue XI, November 2023.
- [20] Published a paper entitled, "**Experimental Investigation and thermal Analysis of LED Heat Power Dissipation and Efficiency Analysis**", in IJCRT, Volume 11, Issue 11, November 2023.
- [21] Published a paper entitled, "**Design analysis of an innovative solar biomass hybrid dryer for drying turmeric**", **Springer Interactions** (2024) 245:145, <https://doi.org/10.1007/s10751-024-01965-3>

Workshop conducted by Dronasthra energy Flights Pvt Ltd, at Pune.

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## FDP

1. One week FDP on "**Application Of Artificial Intelligence And Machine Learning In Mechanical Engineering**" from 22nd March to 26th March 2021 organized by Department of Mechanical Engineering, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune-18
2. One week FDP on "**Advanced Trends in Engineering**" from 19<sup>th</sup> to 23rd May, 2020 Organized by Department of Mechanical Engineering, Nagpur Institute of Technology, Nagpur In association with Institution of Engineers (India), Nagpur Local Centre
3. International Level One week FDP on "**Research Directions In Science & Technology**" from 17th May to 21st May 2021 organized by Department of Mechanical Engineering, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune-18.
4. One day online FDP on "**Role of National Education Policy in Nation Building**" organized by Vidarbha Institute of Technology, Nagpur in association with Dr. Babasaheb Ambedkar Technological University, Lonere and supported under TEQUIP-III, on 26th March 2021.
5. Participated in "**Recent Advances in Healthn 5.0 In Line With NEP 2020**", held at Arvind Gavali College of Engineering, Satara from 22 nd March to 26 th March 2021.
6. Participated and successfully completed One Week FDP on "**Data Science and Machine Learning**", from 13<sup>th</sup> to 17<sup>th</sup> Feb. 2024, organized by IQAC and IIC of Godavari Foundation's Godavari College of Engineering, Jalgaon.
7. Participated and successfully completed One Week FDP Sponsored by **IEEE Bombay Section** on "**Machine Learning & Data Analytics using Python Programming**", from 3<sup>rd</sup> to 8<sup>th</sup> June, 2024 organized by IQAC and IIC of Godavari Foundation's Godavari College of Engineering, Jalgaon in association with IEEE Bombay Section.
8. Completed successfully **Innovation Ambassador (IA) Foundation Level Training** conducted in online mode by **MoE's innovation cell** and **AICTE** during the IIC calender year 2021-22.

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## WEBINARS ATTENDED

1. Attended Webinar on, "**How to increase number of placement offer through TCS Code Vita**", May 22. 2020.
2. Attended one day webinar on "**New Higher Education Policy And Digitalization Of Education**", jointly organized by Dr, Babasaheb Ambedkar Technological University Lonere and R C Patel Institute Of Technology Shirpur, under TEQIP-III, on May 17, 2020.
3. Attended Webinar on "**Fracture Mechanics Approach in Design Engineering, & Research Opportunities in Gear Mechanics**" conducted on 31 May, 2020, organized by, Sinhgad Academy of Engineering Pune.
4. *Participated in training Programme through capacity building webinar on "**Energy Conservation & Energy Efficiency for Domestic Sector**" held on 27.01.2022 organised by Bureau of Energy Efficiency (BEE), New Delhi & Maharashtra Energy Development Agency (MEDA), Pune in association with National Productivity Council (NPC), Mumbai.*