

# Dr. M.P. Phaniraj

## Associate Professor



Education Qualifications: Doctor of Philosophy (Metallurgy)  
Specialization: AI/M, ICME applied to Metallurgy

### ADDRESS:

- A – 203 -Room in PT Lab

### JNTUH ID:

2424-190503-103008

### EMAIL:

mphaniraj\_mme@mgit.ac.in

### DATE OF JOINING:

01-05-2019

### EXPERIENCE - Years

- Teaching - 4
- Research - 14
- Industry -2 (R&D)
- Others – 2 (Production)

### SUMMARY:

- Publications - 33
- Conferences - 8
- Patents – 1
- Books –
- Honors/Awards – 1

### EVENTS:

- Organized -
- Attended -

### LET'S MEET ON SOCIAL:

- <https://www.facebook.com/mgithyderabad>
- <https://www.instagram.com/mgithyderabad>
- <https://www.linkedin.com/company/mgithyderabad>
- [https://twitter.com/MGIT\\_hyderabad](https://twitter.com/MGIT_hyderabad)

### Home page:

<https://sites.google.com/mgit.ac.in/phanirajresearch/home>

### Membership of Professional Bodies:

1. Life Member of The Indian Institute of Metals.
2. Associate Member of the TMS USA

### Responsibilities Held at Institution Level:

1. Member of the library committee
2. Former Director of Research & Development committee

### Responsibilities Held at Department Level:

1. Final year project coordinator.
- 2.

### Research Guidance:

1. One PhD student joint supervision with Prof. K. Rajesh (IITH).
2. One PhD student, formerly RA jointly supervised with Prof. K. Rajesh (IITH) and Dr. Khaple (DMRL)

### Honors/Awards Received:

1. Best Paper award 2020 conferred by the Korean Institute of Metals.

### Courses Handled at Under Graduate /Post Graduate Level:

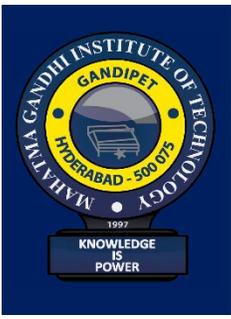
- **UG:** Phase Transformations, Alloy Steels, Advanced Materials, Introduction to Transport Phenomena, Materials Thermodynamics, Materials Thermodynamics & Kinetics, Nonmetallic Materials, Principles of Materials Science & Engineering, Engineering Materials
- **PG:**

### Publications:

1. K. Sairam Goud, R.K. Sabat, M.P. Phaniraj, K. Rajesh, “The role of molybdenum on evolution of deformation texture in the cold rolled Fe<sub>30</sub>Mn<sub>5</sub>Al<sub>1</sub>C-xMo lightweight austenitic steels, Vacuum 2023 (212) 112244 <https://doi.org/10.1016/j.vacuum.2023.112244>
2. K. Sairam, M.P. Phaniraj, K. Rajesh, Effect of molybdenum on recrystallization behavior of Fe<sub>30</sub>Mn<sub>5</sub>Al<sub>1</sub>C-xMo light weight austenitic steels, Scripta Mater 2023 (230) 115399 <https://doi.org/10.1016/j.scriptamat.2023.115399>
3. M. K. Anirudh, M. Sreenidhi Iyengar, P. H. Anantha Desik, M. P. Phaniraj, “Artificial Intelligence Approach to Predict Elevated Temperature Cyclic Oxidation of Fe–Cr and Fe–Cr–Ni Alloys”, <https://doi.org/10.1007/s11085-022-10123-5>

### Conferences:

1. Kotla Sairam Goud, Rajesh Korla, M P Phaniraj, Investigation of effect of Mo addition on the high temperature deformation

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behavior of Low-density austenitic steels, HTSM-2020 IISc

Bangalore, 3-5 Feb 2020.

2. Kotla Sairam, Yasam Palguna, M.P.Phaniraj, R.K.Sabat, Korla Rajesh, “Effect of molybdenum on texture evolution in cold rolled Fe30Mn5Al1CxMo (wt%) lightweight austenitic steels”, ICAMMC 02-04 Dec 2021, Virtual mode
3. Onkar Khadke, Kottada R.S, M.P. Phaniraj. “AI approach to predict creep rupture life of IN718” 8<sup>th</sup> Intl. web conf. on creep, fatigue and creep-fatigue interaction (CF-8) 24-27 Aug. 2021 IGCAR, Kalpakkam, India

**Patents:**

1. Korean Patent. Registration number Ko4833, Application Number 10-1112026, Austenitic oxide dispersion strengthened steel formation method by mechanical alloying, Kim Dong-Ik, M. P. Phaniraj, Shim J-H, Cho Y-W

**Research & Consultancy:**

1. **2 Research projects with Prof. Rajesh Korla (IITH) and Dr S. Khaple (DMRL)**
2. **2 AI projects : 2 MME students and 1 external students.**

**No. of Books/Chapter Published with details:**

- 1.

**Events Organized:****Conferences:**

1. One
2. Two

**FDPs/STTPs:**

1. One
2. Two

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

1. Two

**Events Attended****FDPs/STTPs:**

1. One Week
2. Two

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

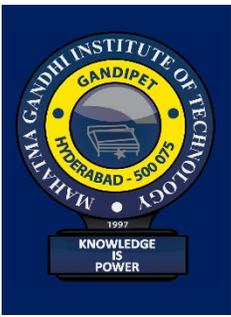
1. One
2. Two

**Online Certifications:**

1. One
2. Two

**Any Other Contribution:****As Director RDC:**

1. conducted 3 visits to IITH for discussion on projects relevant to P&C, MME & Electrical Department faculty
2. conducted two visits to DMRL & RCMA to discuss collaborative projects



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