



Dr. M.P. Phaniraj

Associate Professor



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

ADDRESS:

- A – Block -Room in PT Lab

JNTUH ID:

2424-190503-103008

EMAIL:

mphaniraj_mme@mgit.ac.in

DATE OF JOINING:

01-05-2019

EXPERIENCE - Years

- Teaching -3
- Research - 14
- Industry -2 (R&D)
- Others – 2 (Production)

SUMMARY:

- Publications - 30
- Conferences - 8
- Patents – 1
- Books –
- Honors/Awards –1

EVENTS:

- Organized -
- Attended -

LET'S MEETON SOCIAL:

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- https://twitter.com/MGIT_hyderabad

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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.

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 M.Tech student jointly supervised with Prof. R.S. Kottada (IITM)
3. One 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
- **PG:**

Publications:

1. J. Lee, S. Park, H. Kim, S-JPark, M.P. Phaniraj, H.N. Han, “Kinetic simulation of κ -carbide precipitation for aged low-density Fe-Mn-Al-C steels and its effects on strengthening”, [Met.Mater.Intl.\(2018\) 24\(4\) 702-710.](#)
2. H-J Kim, M.P. Phaniraj, M-K. Cho, E.J. Song, S-W. Baek, G-H. Kim, J-Y. Suh, J.Lee, H.N. Han, ” Hydrogen induced change in microstructure and properties of steels: 18Cr10Mn-0.4N vis a vis 18Cr10Ni” [Mater. Sc. Technol. \(2018\) 34\(5\) 584-86](#)

Conferences:

1. Kotla Sairam Goud, Rajesh Korla, M P Phaniraj, Investigation of effect of Mo addition on the high temperature deformation behavior of Low density austenitic steels, HTSM-2020IIScBangalore, 3-5 Feb 2020.
2. Kotla Sairam, YasamPalguna, 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” 8th 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. **4 AI projects : 2 MME students and 2 external students.**

No. of Books/Chapter Published with details:



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