

Dr. M.P. Phaniraj Associate Professor

Education Qualifications: Specialization:

Doctor of Philosophy (Metallurgy) 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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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:

- J. Lee, S. Park, H. Kim, S-JPark,<u>M.P. Phaniraj</u>, H.N. Han,"Kinetic simulation of κ-carbide precipitation for aged low-density Fe-Mn-Al-C steels and its effects on strengthening", <u>Met.Mater.Intl.(2018) 24(4) 702-710.</u>
- H-J Kim, <u>M.P. Phaniraj</u>, 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<u>Mater. Sc. Technol. (2018) 34(5) 584-86</u>

Conferences:

 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.

- 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

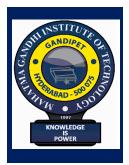
Patents:

1. Korean Patent. Registration number K04833, 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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