Name: Dr. Purnendu Kumar Mandal

Designation: Assistant Professor

Department Department of Mechatronics Engineering

Indian Institute of Information Technology

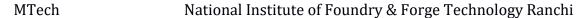
Bhagalpur

Email: pkmandal.mea@iiitbh.ac.in

Contact No 8638810221

Ph.D Indian Institute of Technology Guwahati

Mechanical Engineering, 2018



Manufacturing Engineering, 2006

BE National Institute of Technology Durgapur

Mechanical Engineering, 2004

Institute joining day 11<sup>th</sup> July, 2018

Address Department of Mechatronics Engineering

Indian Institute of Information Technology Bhagalpur

Bhagalpur, Bihar, India

Pin-813210

Area of Research Micro-alloying of alloys, mechanical properties evaluation,

microstructural characterization, High temperature deformation

behaviour and generation of processing maps of metallic alloys.

Courses Taught 1. Engineering Mechanics

2. Engineering Thermodynamics

3. Manufacturing science

4. Engineering Materials

Publications: (Conferences/Journals)

## **International Journal**

1. **Purnendu Kumar Mandal**, P. S. Robi, "Influence of Micro-alloying with Silver on Microstructure and Mechanical Properties of Al-Cu alloy", **Journal of Materials Science and Engineering: A**, (DOI: 10.1016/j.msea.2018.03.012), Vol 722(2018) pp. 99-111.



 Purnendu Kumar Mandal, P. S. Robi, "Experimental Investigation and Constitutive modeling for Hot Deformation Behavior of 2219 Al-alloy micro-alloyed with silver." Journal of Engineering Materials and Technology, ASME, (DOI: 10.1115/1.4040099), Vol 140(2018) p. 041005.

### **International Conference**

- 1. Purnendu Kumar Mandal and P S Robi: "Effect of silver on microstructure and mechanical properties of 2219 aluminum alloy", Processing and Fabrication of Advanced Materials XXII, 18th 20th December, 2013, pp 112-119, Singapore.
- 2. Purnendu Kumar Mandal and P S Robi: "High Temperature deformation behavior of 2219 Aluminum Alloys Micro-Alloyed with Silver", Advances in Materials and Processing Technologies (2014), 16<sup>th</sup> -20<sup>th</sup> November, 2014, Dubai.
- 3. Purnendu Kumar Mandal and P S Robi : "Artificial neural network modeling of High Temperature Deformation of Al-Cu-Mg Alloys Micro-Alloyed with Silver", Processing and Fabrication of Advanced Materials (PFAM XXIII), 5th -7th December, 2014, pp. 1083-1099, IIT Roorkee, India.

# Academic Research Projects:

- 1. PhD thesis on "Role and Influence of Microalloying with Silver on Mechanical Properties and Deformation Behavior of Aluminum Alloys".
- 2. M.Tech thesis on "Optimization of Die Design and Die life Improvement using DEFORM".

## **Experience** Teaching Experience

**Assistant Professor** 

**Department of Mechatronics Engineering** 

Indian Institute of Information Technology Bhagalpur

Duration: 11th July, 2018 to till date

### **Industrial Experience**

Jr. Manager in production,

Viraj Profiles Limited, MIDC Tarapur , Thane, Maharastra Duration : 01.09.2006 - 20.12.2009

### **Teaching Assistant:**

- 1. Experience in conducting laboratory classes at IIT Guwahati during PhD
- 2. Scanning Electron Microscope (SEM), Make: LEO, Model, 1430vp 3 Years
- 3. Field Emission Scanning Electron Microscope (FESEM), Make: Zeiss 3 Years
- 4. Universal Testing Machine (UTE-20) 1 Semester.
- 5. Vickers Hardness Tester (VM-50) 1 Semester.