

Name : Dr. Purnendu Kumar Mandal
Designation: Assistant Professor
Department Department of Mechatronics Engineering
Indian Institute of Information Technology
Bhagalpur
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Contact No 8638810221
Ph.D Indian Institute of Technology Guwahati
Mechanical Engineering, 2018



MTech National Institute of Foundry & Forge Technology Ranchi
Manufacturing Engineering, 2006

BE National Institute of Technology Durgapur
Mechanical Engineering, 2004

Institute joining day 11th 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.

2. **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), 16th -20th 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.