



**KAZI NAZRUL UNIVERSITY  
ASANSOL**

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**Short Biography:** Presently, Dr. Chanchal Biswas is working as an Assistant Professor in the Department of Metallurgical Engineering, School of Mines and Metallurgy, Kazi Nazrul University, Asansol, West Bengal from February 2020. He has passed diploma in Mechanical engineering from Belur math Ramkrishna mission shilpamandira in 2005. After that he has joined on heavy earth moving machinery as a Service Engineering under National Mineral Development Corporation (NMDC). He has passed B. Tech in production Engineering from Mallabhum institute of Technology (WBUT, 2010), after that he has joined Master of Engineering in Industrial Metallurgy in metallurgical and material engineering department, Jadavpur university (2012). Then he has completed doctorate in philosophy in Process Metallurgy in the year 2017. The topic of his PhD thesis is **“Optimization of the mechanical properties of iron ore nuggets & their possible use in a new alternative iron making process”** in Metallurgical & Material Engineering Department, Jadavpur University, Kolkata, India. During his thesis work he has handled several characterization equipments like atomic absorption spectrophotometer, TGA, XRD, SEM & EDX, FESEM and gas chromatographer. Other than these he has knowledge in data analysis from X-Ray Diffractometer, X-Ray Fluorescence, DTA-TGA and Scanning Electron Microscopic. He has performed the classical as well as sophisticated chemical analysis of different metals, minerals and alloys. Also he is conversant with different ore dressing techniques like crushing, jigging & grinding of ore along with the up gradation processes like forth floatation, magnetic separation, gravity separation etc. He has design a typical coal gasification furnace with help of design software and heat transfer knowledge. He has served at Arcelormittal and Nippon Steel R&D, as a team member of process improvement area on June 2017 to February 2020. He has completed several projects for plant level implementation in the field of Characterization of Iron Ore, Agglomeration of Iron Ore (Sintering and Pelletizing), Improvement the process Area of Iron and Steel Making, Energy Balance of Steel Plant and Solid Waste Management. He has published 15 nos. of journals and 07 nos. of peer reviewed conference proceedings of repute. He has received Institute’s Bronze Medal Award from The Mining, Geological and Metallurgical Institute of India (MGMI) in 2016-17. He has also received winner the best idea prize of Margin Improvement challenge 2019 at ESSAR Steel India Limited out of 1369 Idea. He has also received prestigious TEQIP Research Fellowship in 2012 to 2017 at Jadavpur University. Dr. Biswas is serving as a reviewer the journal of Separation Science and Technology, Taylor and Francis (SCI Indexed).