

# BIODATA

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**CAREER OBJECTIVE :** To obtain a position that will allow me to utilize my technical and practical knowledge for growth of myself and Organization.

## ACADEMIC PROFILE

EXAMINATION	Specialization	UNIVERSITY/COLLEGE
M.Tech	Metallurgical and Materials Engineering	IIT Kharagpur
B.Tech	Metallurgical Engineering	BIT Sindri
Intermediate/+2	Science(PCM)	B.I.E.C ,Patna
Matriculation	All Subjects	J.S.E.B,Ranchi

## ACADEMIC PROJECT

**M.Tech. Dissertation** (*Prof.M.M Godkhindi & Prof. K . Biswas, IIT Kharagpur*)  
“Investigation on mechanism of sintering in microcrystalline Nickel and effect of microwave heating” [Sep’ 12-Apr’ 13 ]

**B.Tech. Thesis** (*Prof.B.N Roy, BIT Sindri*)  
Successfully completed B.Tech project on “Smelting reduction a reviews” [2011]

## INDUSTRIAL TRAINING

STEEL AUTHORITY OF INDIA LIMITED ,BOKARO

- Extensively analyzed the various units of Sintering Plant , Raw Material Section, Burden Section and Machine Section.
- Studied the processing of Coke Oven Plant (CO), Blast Furnace (BF), Steel Melting Shop (SMS)

## WORK EXPERIENCES

Sl. No.	Position held	Name of Organization	From	To
1.	Assistant Professor	B.I.T. Sindri	12 <sup>th</sup> January, 2022	Till date
2.	Assistant Professor	OP Jindal University, Raigarh	14 <sup>th</sup> June, 2013	11 <sup>th</sup> January, 2022

## TECHNICAL EXPERTISE

- **INSTRUMENTATION PROFICIENCY:** Experience to work with Hardness Testing Machine (Rockwell, Brinell , Vickers),Wear testing machine, Tensile testing machine(UTM),Impact Testing etc.
- **CHARACTERIZATION PROFICIENCY:** Optical microscope, Scanning electron Microscope, X-ray diffraction.
- **SOFTWARE PROFICIENCY:** Origin, Thermocalc etc.

**PROMINENT COURSES TAUGHT**

- Physical Metallurgy
- Deformation Behaviour and Testing of Materials
- Iron Making
- Steel Making
- Phase Diagram and Phase Transformation of Materials
- Mechanical Metallurgy
- Metallurgical thermodynamics and kinetics
- Powder Metallurgy

**BOOK PUBLICATIONS**

Sl. No	Title of the Book	Name of the Publication	ISBN No	Year
1.	Quick Concepts in Metallurgical Engineering	G K Publication	978-93-94168-16-9	2022

**PAPER PUBLICATIONS IN INTERNATIONAL JOURNAL**

Sl. No	Title of the paper	Name of the Journal	Vol./No.	Year	Page No.
1.	Experimental Investigation and Comparative Study of Sintering of Microcrystalline Nickel Using Microwave and Conventional Method	Arabian Journal for Science and Engineering;	46(8)	2021	7757-7771
2.	Experimental study and statistical analysis of bending titanium alloy sheet with continuous wave fiber laser	Archives of Civil and Mechanical Engineering	22	2022	110-121
3.	Application of Taguchi Method for Experimental Design of Dephosphorization process of steel through Induction furnace route	European Chemical Bulletin	12(10)	2023	13030-13048

**PAPER PRESENTED AT INTERNATIONAL CONFERENCES**

Sl. No	Title of the presented paper	Name of the Conference	Place	Year
1.	Investigation of mechanism of sintering in Microcrystalline nickel in Conventional sintering process”	International conference on Advances in Steel,power and construction Technology	Raigarh, CG	2015
2.	Investigation of mechanism of sintering in Microcrystalline nickel in Microwave sintering process	2nd International conference on Advances in Steel,power and construction Technology	Raigarh, CG	2016

3.	“Prevention of heat loss of continuous cast slab while transferring it from continuous casting shop to reheating furnace for the need of hot rolling”	2nd International conference on Advances in Steel,power and construction Technology	Raigarh, CG	2016
4.	Enhancement of mechanical properties of low carbon steel by heat treatment and carborization technique.	3rd International conference on Advances in Steel,power and construction Technology	Raigarh, CG	2017
5.	Mercury ion detection of water body using unmodified and ZnO modified carbon paste electrode by electrochemical technique.	4th International conference on Advances in Steel, power and construction Technology	Raigarh, CG	2019
6.	Comparison of electrochemical characteristic of carbon paste electrode and modified CPE with chromium oxide and Zinc oxide.	4th International conference on Advances in Steel,power and construction Technology	Raigarh, CG	2019
7.	Dephosphorization of steel in ladle refining furnace through induction furnace route.	4th International conference on Advances in Steel, Power and Construction Technology	Raigarh, CG	2019
8.	Development of LCC in-situ matrix via sol-gel synthesized zirconia powder and optimized the parameters using taguchi method	4th International conference on Advances in Steel, Power and Construction Technology	Raigarh, CG	2019
9.	Experimental study of effect of grain size on hardenability of SAE4124 materials	Digital international conference 2020 on role of innovation entrepreneurship and management for sustainable development	Raigarh, CG	2020

SHORT TERM COURSE/FDP/WORKSHOP/TRAINING ATTENDED

Sl. No.	Training Name	Name of Institute	Period	Duration
1.	QIP STC and CEP on Steel Technology	IIT, BHU, U.P	02-03-2017 to 09-03-2017	1 Week
2.	Workshop on Materials processing, Process Metallurgy and Material Characterization	VSSUT, Burla, Odisha	19-03-2018 to 23-03-2018	1 Week
3.	Role of Materials and Processing in Additive Manufacturing: 3D Printing to Industry-2020	GLA, University	19-07-2020 to 24-07-2020	1 Week
4.	patent drafting and processing with importance of Trademarks and copyright	Journal of Advance Engineering Research	06-05-2020 to 07-05-2020	2 Days
5.	Ferrous Technology II	Coursera	27-03-2020 to 16-05-2020	7 week
6.	Six Sigma -Understanding Benchmarking Methods-Revised	Alison	01-05-2020 to 12-05-2020	2 week
7.	Awareness program on Intellectual property rights	Shri Chhatrapati Shivajiraje College of	19-05-2020	1 day

		Engineering		
8.	Faculty program on NBA	Bharati Vidyapeeth College of Engineering	15-05-2021	1 day
9.	Virtual training on ISO 17025:2017	Vision care certification PVT LTD	06-10-2021 to 09-10-2021	1 Week
10.	Virtual training on measurement uncertainty as per IS/ISO/IEC 17025:2017	Vision care certification PVT LTD during	26-11-2021 to 27-11-2021	2 days
11.	National Intellectual Property Awareness Mission (NIPAM)	AICTE and NIPAM	22-09-2022	1 day
12.	Faculty Induction programme on Service regulation for Employees	BIT Sindri	15-02-2022 to 19-02-2022	1 Week
13.	International symposium on Entrepreneurship in the Digital Era- 2022(ISEDE-2022)	BIT Sindri	18-11-2022 to 20-11-2022	3 days
14.	Faculty development program on Data science and Machine learning using Python for Beginners	BIT Sindri and NIT patna	19-09-2022 to 29-09-2022	2 Week
15.	Faculty development program on Data science and AI for Non- Programmers using Momentum	BIT Sindri	26-12-2022 to 07-01-2023	2 Week
16.	Faculty development program on Professional Ethics and sustainability	NITTTR	April-May, 2022	2 month
17.	Faculty development program on Communication skills, modes and knowledge Dissemination	NITTTR	April-May, 2022	2 month
18.	Faculty development program on Instructional Planning and Delivery	NITTTR	April-May, 2022	2 month
19.	Faculty development program on Technology Enabled learning and life long self learning	NITTTR	April-May, 2022	2 month
20.	Faculty development program on Students assessment and evaluation	NITTTR	April-May, 2022	2 month
21.	Workshop on Advance in Materials, Processes and Characterization (AMPC)	BIT Sindri	17-01-2023 to 21 -01-2023	1 Week
22.	Workshop on Advances in Agglomeration Processes in Iron Making	BIT Sindri	17-04-2023 to 21-04-2023	1 Week
23.	Faculty development program on Entrepreneurship	BIT Sindri	05-06-2023 to 15 -06-2023	2 Week
24.	Training Program on Turning-NC Programming	BIT Sindri and SIEMENS	12-06-2023 to 17 -06-2023	1 Week
25.	Training Program on Milling-NC Programming	BIT Sindri and SIEMENS	19-06-2023 to 24 -06-2023	1 Week
26.	Faculty development program on Orientation towards Technical Education and Curriculum Aspects	NITTTR	April-May, 2023	2 month
27.	Faculty development program on Creative Problem Solving, Innovation and Meaningful R and D	NITTTR	April-May, 2023	2 month

28.	Faculty development program on Institutional Management and Administrative Procedures	NITTTR	April-May, 2023	2 month
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#### ACHIEVEMENTS

- Qualify Gate Exam 2011
- Got scholarship from Human Resource Development Ministry of India for Pursuing M.Tech from IIT Kharagpur during 2011-13.
- Qualify Gate Exam 2015
- Received certificate of appreciation for Teacher Innovation Award in Zero Investment Innovations for Education Initiatives (ZIEI) organized by Sri Aurobindo Society.

#### MEMBERSHIP OF PROFESSIONAL BODIES

- Life Time Membership of ISTE.
- ASM International Professional Membership
- Membership of the International Association of Engineers