

Bio-Data

Dr. Sandeep Kumar Sahoo

Assistant Professor

Department of Metallurgical and Materials Engineering

Indira Gandhi Institute of Technology, Sarang

(An Autonomous Institute of Govt. of Odisha)

E-Mail: sandeep.talcher@gmail.com, sandeep.talcher@igitsarang.ac.in

Research Gate: https://www.researchgate.net/profile/Sandeep_Sahoo5

ORCID: 0000-0002-8971-3343



Member of Indian Institute of Metals (M-1834015)

Automated Permanent Academic Account Registry (APAAR) ID: 626856362572

Born on 21st September 1983

Address			
Permanent	At- Badadanda Sahi, Ward No. 1, PO- Talacher Town, Dist.-Anugola, ODISHA-759107		
Communication.	Department of Metallurgical and Materials Engineering Indira Gandhi Institute of Technology, Sarang, Parjang, Dhenkanal, ODISHA-759146		

Qualification			
Degree	Year	University	Specialization
Ph.D.	2023	Utkal University	Metal Matrix Composites
M. Tech	2012	NIT, Rourkela	Met. & Mat. Engg
B. E.	2004	BPUT, Rourkela	Met. & Mat. Engg

Experience				
Sl. No.	Duration		Designation	Organisation
	From	To		
1	28th Feb 2009	Till date	Assistant Professor	MME Dept., IGIT Sarang
2	20th Sept. 2005	19th Jul. 2008	Guest Lecturer (Consolidated)	MME Dept., IGIT Sarang

Short term Course/ Training programme Organized					
Sl. No.	Date	Coordinator(s)	Title	Department	Funding Agency
1	1 week (2 nd -6 th September 2021)	Mr. Sandeep Kumar Sahoo,	Webinar on Advances in Materials Processing	MME Dept., IGIT Sarang	Zero Budget

		Mr. Jogendra Majhi	and Characterization (AMPC-2021)		
2	1 week (28th August-1st September 2020)	Mr. Jogendra Majhi, Mr. Sandeep Kumar Sahoo	STC(Webinar) on Advances in Materials Processing and Characterization (AMPC-2020)	MME Dept., IGIT Sarang	TEQIP-III
3	1 week (24 th -28 th Feb 2020)	Mr. Sandeep Kumar Sahoo, Mr. Jogendra Majhi	STC on Advances in Materials and Processing	MME Dept., IGIT Sarang	TEQIP-III

Short term Course/ Training Programme attended					
Sl. No.	Duration		Short term Course/ Training programme	Organisation	
	From	To			
1	25 th May 2026	31 st May 2026	Innovations in Additive Manufacturing and Smart Electronic Materials for High-Performance, Reliable and Fuel-Efficient Aeroengines	Electronics and ICT Academy, NIT Patna	
2	24 th November 2025	29 th November 2025	Empowering the Future: Sustainable Energy for a Changing Climate	AICTE Training And Learning (ATAL) Academy Faculty Development Program, IGIT Sarang	
3	3 rd November 2025	8 th November 2025	Industry 4.0: Transforming manufacturing with advanced technologies	AICTE Training And Learning (ATAL) Academy Faculty Development Program, IGIT Sarang	
4	28 th Jul 2025	2 nd Aug 2025	Product Design Engineering using Autodesk Fusion	Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology (A), Hyderabad	
5	21 st July 2025	31 st July 2025	Recent Advances in Bioelectronics and Energy Materials for Healthcare and Sustainable Development	Electronics and ICT Academy, NIT Patna	
6	19 th May 2025	30 th May 2025	Hybrid Composite Material-Based Supercapacitors for Next Generation Portable Energy Storage Electronics	Electronics and ICT Academy, NIT Patna	
7	9 th April 2025	11 th April 2025	Bloom's Taxonomy and Comprehensive Learning Process	IGIT, Sarang by NITTTR Kolkata	
8	7 th April 2025	17 th April 2025	Advancing Hydrogen Energy Frontiers: Artificial Intelligence, E-Mobility and Sustainable Green Technologies	Electronics and ICT Academy, NIT Patna	
9	24 th February 2025	1 st March 2025	Sustainable Manufacturing and Advanced automation in Industries	AICTE Training And Learning (ATAL) Academy Faculty Development Program, IGIT Sarang	

10	6 th January 2025	11 th January 2025	Recent Advances in Design, Manufacturing & Testing of Composites	Department of Mechanical Engineering, Chaitanya Bharati Institute of Technology(A), Hyderabad
11	16 th Sept 2024	20 th Sept 2024	Rise of The Machines: Robotics and Automation	Department of Mechanical Engineering, IEM, Saltlake
12	5 th August 2024	10 th August 2024	Technological Advancement in Synthesis of Novel Materials	Department of Mechanical Engineering, Chaitanya Bharati Institute of Technology(A), Hyderabad
13	1 st July 2024	5 th July 2024	Roadmap for Green Steel Production: Industry 4.0	Department of Metallurgical and Materials Engineering, National Institute of Technology Rourkela
14	22 nd January 2024	27 th January 2024	Five Day Workshop on Computational Materials Engineering	Department of Metallurgical and Materials Engineering, Malaviya National Institute of Technology Jaipur, Rajasthan.
15	22 nd May 2023	4 th June 2023	2 weeks Industrial Training on Rotary Kiln, Steel Melting Shop, Continuous Casting	Narbheram Power and Steel Pvt. Ltd., Dhenkanal
16	18 th March 2023	26 th March 2023	Characterization and Testing of Components Following Laser Materials Processing including Surface Engineering and Additive Manufacturing	Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Kharagpur
17	12 th December, 2022	16 th December, 2022	Advanced Manufacturing Processes	Department of Metallurgical and Materials Engineering, Malaviya National Institute of Technology Jaipur, Rajasthan
18	12 th November 2022	13 th November 2022	Workshop on Recent advances in Materials and Mechanics (RAMM) -2022	School of Minerals, Metallurgical and Materials Engineering, Indian Institute of Technology Bhubaneswar
19	5 th August 2022	9 th August 2022	Materials Processing & Characterization	Department of Metallurgical and Materials Engineering, Malaviya National Institute of Technology Jaipur, Rajasthan
20	1 st August 2022	5 th August 2022	Designing and Modelling of IoT, AI, ML Systems	AICTE, ATAL Academy, Arm Education & STMicronics
21	22 nd July 2022	26 th July 2022	Materials Testing & Characterization for Academia and Industries	Department of Metallurgical and Materials Engineering, Malaviya National Institute of Technology Jaipur, Rajasthan
22	21 st February 2022	26 th February 2022	Materials Engineering from Synthesis to Application	Department of Metallurgy Engineering and Materials Science, IIT Indore
23	1 st October 2021	5 th October 2021	"Recent advances in Metal alloy Design and Processing"	Department of Metallurgical and Materials Engineering, Malaviya National Institute of Technology Jaipur, Rajasthan
24	9 th August 2021	13 th August 2021	"Archaeometallurgy and Scientific Analysis of Ancient Metal Objects"	National Research Laboratory for Conservation of Cultural Property, Lucknow

25	19 th April 2021	23 rd April 2021	"Metallurgical Aspects in Additive Manufacturing"	Department of Metallurgical and Material Engineering, NIT, Andhra Pradesh
26	15 th March 2021	19 th March 2021	Automation and Robotics in Construction (ARC-2021)	Department of Civil & Production Engineering, IGIT Sarang
27	23 rd February 2021	27 th February 2021	'Concepts & Applications of Composite Materials'	Department of Mechanical Engineering, IGIT Sarang
28	6 th November 2020	8 th November 2020	International Webinar on Recent Advances on Science and Technology	Department of Physics, IGIT Sarang
29	9 th November 2020	13 th November 2020	Transport Phenomena in Industrial Processes	Department of Metallurgical and Material Engineering, IGIT Sarang
30	14 th September 2020	19 th September 2020	One Week National Webinar on Advances in Production Engineering	Department of Production Engineering, IGIT Sarang
31	11 th September 2020	15 th September 2020	Workshop on Sustainable Pavement: Current Research and Practices" (SPCRP-2020)	Department of Civil Engineering, IGIT Sarang
32	7 th September 2020	11 th September 2020	CSSR-2020: Current Scenario on Steel Research An Online Five Days FDP on CSSR-2020: Current Scenario on Steel Research	Department of Metallurgical and Material Engineering, Veer Surendra Sai University of Technology, Burla
33	18 th August 2020	19 th August 2020	Two Days Online Training Programme on Materials Characterization and Mechanical Behaviour of Plastics	CIPET, Bhubaneswar
34	13 th August 2020	17 th August 2020	One Week Self Sponsored Online Workshop on Advancements in Materials and Manufacturing Systems (AMMS-2020)	Department of Mechanical Engineering, MANIT, Bhopal
35	13 th August 2020		FDP on use of LMS, Virtual Teaching and OBE Software for Engineering Colleges	vmedulife Software Services
36	3 rd August 2020	7 th August 2020	Workshop on "Research and Practices in Civil Engineering (RPCE-2020)"	Department of Civil Engineering, IGIT Sarang
37	11 th June 2020	24 th June 2020	Recent Advancement in Signal Processing , Machine Learning and next generation Wireless Access Networks	Dept. of ETC Engg., IGIT Sarang
38	16 th December 2019	28 th December 2019	Fundamentals of processing and properties of Nanomaterials	MME Dept., IGIT Sarang
39	21 st February 2019	25 th February 2019	Process Metallurgy and Its Environmental Impact	NIT Rourkela

40	2 nd August 2018	3 rd August 2018	Workshop on MOOCs- A Tool for Efficient Academic Management	IGIT Sarang in collaboration with Calcutta University, Kolkata
41	17 th July 2018	21 st July 2018	National Workshop on Applications of Chemical Engineering in Natural Resources	Dept. of Chemical Engg, IGIT Sarang
42	28 th May 2018	1 st June 2018	Workshop on Active learning, Autonomy, Academic Governance and R & D	Dept. of Management Studies IIT Roorkee
43	12 th March 2018	16 th March 2018	Short Term Programme on Nanomaterials Science and Technology	MME Dept., IGIT Sarang
44	6 th March 2018	7 th March 2018	Workshop on Outcome based Accreditation for UG PG Engineering Program	NPIU (TEQIP-III), IGIT Sarang
45	27 th March 2017	31 st March 2017	Short Term Course on Recent Trends in Advance Materials, Mechanical Design and its Applications (RTAMMDA-2017)	Mechanical Engineering Dept., IGIT Sarang
46	19 th December 2016	24 th December 2016	QIP Short Term Course on Principles of Steel Making	IIT Bombay
47	11 th July 2016	16 th July 2016	Short Term Training Programme on Emerging Trends in Energy Management & Their Applications (ETEMA-2016)	Mechanical Engineering Dept., IGIT Sarang
48	19 th March 2016	21 st March 2016	National Workshop on Technical Document Writing Using LaTeX	Dept. of CSE&A and Dept. of Physics, IGIT, Sarang
49	17 th March 2014	29 th March 2014	Short Term Course on Statistics for Experimentalists	Dept. of Chemical Engg., IIT Madras
50	20 th Oct 2012	29 th Oct 2012	Training in DRI Plant	Narbheram Power and Steel Pvt. Ltd., Dhenkanal

NPTEL Online Certification Course

Sl. No.	Duration	Course Name	Remarks
1	12 weeks (Jul-Oct 2025)	FDP on Aluminium based Alloys and Metal Matrix Composites	Elite
2	4 weeks (Jan-Feb 2025)	FDP on Teaching And Learning in Engineering	Elite+Silver
3	4 weeks (Jul-Aug 2024)	FDP on Technical Communication for Engineers	Elite+Gold
4	4 weeks (Feb-Mar 2024)	FDP on Outcome Based Pedagogic Principles For Effective Teaching	Elite+Silver
5	4 weeks (Jan-Feb 2023)	FDP on Development of Sociology in India	Elite+Silver
6	4 weeks (Aug-Sept 2022)	FDP on Stress Management	Elite+Silver

7	4 weeks (Jan-Feb 2022)	FDP on Effective Engineering Teaching In Practice	Elite+Silver
8	8 weeks (Jan-Mar 2021)	Theory and Practice of Non Destructive Testing	Elite+Silver
9	12 weeks (Jan-Apr 2020)	Steel Quality: Role of Secondary Refining & Continuous Casting	Covid-19 impacted
10	8 weeks (Jan-Mar 2020)	Friction and Wear of materials _ Principle and case studies	Covid-19 impacted

Teachers' Training (NITTT Sept-2023) Completed

Module	Title
1	Orientation Towards Technical Education and Curriculum Aspects
2	Professional Ethics & Sustainability
3	Communication Skills, Modes & Knowledge Dissemination
4	Instructional Planning and Delivery
5	Technology Enabled Learning & Lifelong Self Learning
6	Student Assessment and Evaluation
7	Creative Problem Solving, Innovation and Meaningful R & D
8	Institutional Management & Administrative Procedures

Publications

Journals

Year	Sl. No.	Author(s)	Topic	Publisher
2026	1	Adityaprasad Sahoo, Sandeep Kumar Sahoo, Jogendra Majhi, Himansu Sekhar Dash, Ashok Kumar Pradhan	The synergetic effect of in-situ TiB ₂ and ex-situ Al ₂ O ₃ in Al-Si binary alloys for the enhancement of wear properties	Future Technology, May 2026, Volume 05, Issue 02, Pages 221-227, https://doi.org/10.55670/fpll.futech.5.2.21
2024	2	Sandeep Kumar Sahoo, Jogendra Majhi, Suresh Chandra Patnaik, Bhabani Prasad Sahoo, Adityaprasad	Microstructure characterisation and dry sliding wear behaviour of Al-Si near eutectic and hypereutectic alloys reinforced with in-situ TiB ₂ synthesized by stir casting route	Discover Materials (Springer Nature), December 2024, 4, 87 https://doi.org/10.1007/s43939-024-00163-w

		Sahoo & Ajit Behera		
2019	3	S.K. Sahoo , S.C.Mishra , B. Sarangi , S.C. Patnaik , J. Majhi	A Literature Review on Al-Si-TiB ₂ In situ Metal Matrix Composites	Journal of Materials & Metallurgical Engineering ISSN: 2231-3818 (Online), Volume 9, Issue 2. https://doi.org/10.37591/jomme.v9i2.2484
2018	4	J. Majhi S. K. Sahoo S. C. Patnaik B. Sarangi A. Behera	Effect of Pouring Temperature in Al-16Si-1Al ₂ O ₃ Hypereutectic Alloys	International Journal for Scientific Research & Development Vol. 6, Issue 07, 2018, ISSN (online): 2321-0613
2018	5	J.Majhi, S.K.Sahoo, S.C. Patnaik, B. Sarangi, S.K. Sahu	Effect of addition of 2%Al ₂ O ₃ for grain refinement of Al-16Si Hypereutectic Alloys at 770°C.	International Journal of Scientific & Engineering Research Volume 9, Issue 4, April-2018, ISSN 2229-5518
2018	6	S.K. Sahoo, J. Majhi, B. Sarangi, S.C. Patnaik, J.K. Sahoo	Processing and characterization of in-situ Al-Si-2TiB ₂ Composites	International Journal of Scientific & Engineering Research Volume 9, Issue 4, April-2018, ISSN 2229-5518
2018	7	S. K. Sahoo, J. Majhi, J. K. Sahoo, A. K., Bairagi, S. Sahoo, &B.P.Sahoo.	Dry Sliding Wear Behaviour of Al-Si-TiB ₂ In-Situ Composites	International Journal of Advanced Mechanical Engineering, ISSN 2250-3234 Volume 8, Number 1 (2018), pp. 27-36.
2018	8	J. Majhi, S.K. Sahoo, S.C. Patnaik, B Sarangi, & R. Mohanty	Oxidation Behavior of Mo-Si-W Ternary Alloys in the Temperature Range of 400 C-900 C	International Journal of Advanced Mechanical Engineering, ISSN 2250-3234 Volume 8, Number 1 (2018), pp. 237-244
2017	9	S.K. Sahoo, J. Majhi, S.C. Patnaik, A. Behera, J.K.Sahoo, &B.P. Sahoo	Characterisation of Al-Si-TiB ₂ In-situ Composite Synthesised by Stir Casting Method.	Elixir Materials Science 113, 49066-49069
2014	10	S. C. Patnaik, P. K. Swain, P. K. Mallik, S. K. Sahoo	Wear Characteristics of Aluminium-Graphite Composites Produced by Stir Casting Technique	Journal of Materials and Metallurgical Engineering ISSN: 2231-3818 (online), ISSN: 2321-4236 (print), Volume 4, Issue 3 (2014)

2013	11	S. K. Sahoo, S. C. Patnaik, S. Sen, J. Majhi	An Austempering Study of Ductile Iron and the Effect of Copper Addition on the Tensile Properties of Austempered Ductile Iron	Journal of Materials and Metallurgical Engineering, Volume 3, Issue 2, ISSN: 2231 – 3818 (2013)
Conference Proceedings				
Year	Sl. No.	Author(s)	Topic	Publisher
2023	1	SK Sahoo, J Majhi, BP Sahoo, AP Sahoo, S Sahoo	Synthesis and wear properties of near eutectic Al-Si-TiB ₂ /Al ₂ O ₃ hybrid composites	Materials Today: Proceedings, 2023, ISSN 2214-7853, https://doi.org/10.1016/j.matpr.2023.05.279 .
2023	2	J Majhi, SK Sahoo, BP Sahoo, AP Sahoo	Stimulation of microstructure and wear properties by pouring temperatures of Al-Si-Al ₂ O ₃ hypereutectic alloy	Materials Today: Proceedings, 2023, ISSN 2214-7853, https://doi.org/10.1016/j.matpr.2023.07.012
2022	3	K.P.Jena, J.Majhi, S.K.Sahoo, S.C.Pattnaik	The microstructural and wear properties improvement by manganese addition in Al-14Si hypereutectic alloy	https://doi.org/10.1016/j.matpr.2022.04.638 Materials Today: Proceedings (2022).
2020	4	SK. Sahoo, B. Sarangi, SC. Patnaik, J. Majhi , AK. Biswal, BP. Sahoo	Studies on in-situ TiB ₂ reinforced Al-Si alloys synthesized by stir casting method	https://doi.org/10.1016/j.matpr.2020.03.115 , Materials Today: Proceedings (2020).
2020	5	Priyadarshini Nayak, Asutya K.Biswal, Sandeep K.Sahoo	Processing and characterization of Fe-35Mn biodegradable metallic materials	https://doi.org/10.1016/j.matpr.2020.02.966 , Materials Today: Proceedings (2020).
2020	6	J.Pany, R.K.Barik, S.K.Sahoo, S.C.Patnaik, J.Majhi, A.B.Pattnaik	Mathematical modeling for the prediction of wear rate of Al-12.6Si/TiB ₂ <i>in situ</i> composites	https://doi.org/10.1016/j.matpr.2020.03.493 Materials Today: Proceedings (2020).
2020	7	Sudeshna Dhar, Asutosh Jena, S.C.Patnaik, S.K. Sahoo, Omkar Tripathy	A study on microstructure and mechanical properties of aluminium matrix composites with micro-sized iron fillers produced by powder metallurgy route	https://doi.org/10.1016/j.matpr.2020.03.733 , Materials Today: Proceedings (2020).
2020	8	J.Majhi, A.Mandal, S.K.Sahoo, S.C.Patnaik, B.Sarangi, K.P.Jena	Effect of pouring temperature on microstructure and mechanical properties in Al-16Si-2%Al ₂ O ₃ hypereutectic alloys	https://doi.org/10.1016/j.matpr.2020.03.496 , Materials Today: Proceedings (2020).
2018	9	S. K. Sahoo, J. Majhi, A.B. Pattnaik, J.K. Sahoo, & S. Das	Mechanical properties enhancement and microstructure study of Al-Si-TiB ₂ <i>in situ</i> composites.	IOP Conf. Series: Materials Science and Engineering 338 (2018) 012060 doi:10.1088/1757-899X/338/1/012060

2018	10	J. Majhi, S.K. Sahoo, S.C. Patnaik, B Sarangi, & N.K. Sachan	Effect of alumina on grain refinement of Al-Si hypereutectic alloys.	IOP Conf. Series: Materials Science and Engineering 338 (2018) 012048 doi:10.1088/1757-899X/338/1/012048
2017	11	J.K.Sahoo, S.K.Sahoo, H.Sutar and B.Sarangi	Wear behavior of Al-Si alloy based metal matrix composite reinforced with TiB ₂	IOP Conf. Series: Materials Science and Engineering 178 (2017) 012025 doi:10.1088/1757-899X/178/1/012025

International Conferences

Year	Sl. No.	Author(s)	Topic	Publisher
2023	1	Sandeep K. Sahoo, Bhabani P. Sahoo, Jogendra Majhi, Adityaprasad Sahoo	Processing and wear behaviour of Al-Si-TiB ₂ /Al ₂ O ₃ hybrid composites	International conference on Emerging Trends in Engineering and Technology- Industry 4.0 (ETETI-2023), 6th-7th May 2023
2020	2	Sandeep Kumar Sahoo, Randhir Kumar Singh, Jogendra Majhi, Bhabani Prasad Sahoo, Pritam Priyadarsana	Tribological Behaviour of Al-Si-TiB ₂ In-situ Composites	Conference on Processing and Characterization of Materials (CPCM 2020) At: NIT Rourkela
2020	3	Sandeep K Sahoo, Suresh C Patnaik, Jogendra Majhi, Jayant K Sahoo, Bhabani P Sahoo	Characterization and Mechanical Properties Enhancement of Al-Si-TiB ₂ insitu Composite	International Conference on Innovations in Aluminium Technology (INALT)-2020
2012	4	Ajit Behera, S. K. Sahoo and S. C. Mishra	Coating Material Interaction on Metal Substrate by Application of Plasma Spraying	3 rd Asian Conference on Mechanics of Functional Materials & Structures, IIT Delhi, Dec 5-8, 2012

National Conference

Year	Sl. No.	Author(s)	Topic	Publisher
2018	1	S.K. Sahoo, B. Sarangi, S.C. Patnaik, J. Majhi, J.K. Sahoo, J. Pany	Studies on In-situ TiB ₂ reinforced Al-Si Alloys Synthesised by Stir Casting Method	Conference on Equipment & Material for Aluminum Industries...Success through Synergy (EMAS-2018), NALCO, Angul, IIM Angul Chapter, 15 th -16 th Dec 2018

2014	2	Suresh Chandra Patnaik, Pravat K. Swain, Prafulla Kumar Mallik, Sandeep Kumar Sahoo	Production of Aluminium-Graphite Composites Using Stir Casting Method and their Mechanical Characterization	National Seminar on Recent Advancement in Material Sciences (RAIMS-14), VSSUT, Burla, August 23-24, 2014.
2013	3	P.K.Mallik, S.C.Patnaik, S.K.Sahoo, J.Majhi	A comparative Study on the densification of Spark Plasma Sintered with microwave and conventional sintered Zirconia Ceramics, National Conference on	National Conference on Modern Trends in Engineering Solutions, (NCMTES-2013), 21-22 Dec 2013, IGIT, Sarang.
	4	S.K.Sahoo, S.C.Patnaik, J.Majhi	Mechanical Properties Enhancement of Ductile Iron by Austempering and Copper Addition	MOMAVEA, March 30-31, 2013, IGIT, Sarang.
	5	J.Majhi, S.C.Patnaik, S.K.Sahoo	Isothermal Oxidation Behavior of MoSi ₂	MOMVEA-2013, March 30-31, 2013, IGIT, Sarang.
2011	6	S.K.Sahoo, S.C.Patnaik, S.Sen,	A Study on the Effect of Austempering Temperature, Time and Copper Addition on the Tensile Properties of Austempered Ductile Iron	National Conference on Emerging Trends and its Application in Engineering, IGIT, Sarang, December 26-28, 2011.

Research Work Guided						
Ph.D.						
Sl. No.	Year of Submission	Subject	Regn. No. (Institute)	Name of the Candidate	Title of the Thesis	Remarks
1	Cont.	Met. & Mat. Engg	26MTD24001 (BPUT)	Adityaprasad Sahoo	Studies on Al-Si Hypereutectic Alloy Based MMCs	
M.Tech.						
Sl. No.	Year of Submission	Subject	Regn. No. (Institute)	Name of the Candidate	Title of the Thesis	Remarks
1	2026	Met. & Mat. Engg	2407105037 (IGIT)	Sandip Kumar Sahoo	Al-Si Hypereutectic Alloy Based Metal Matrix Composites	Co-Guide: Dr. Ipsa Tripathy
2	2024	Met. & Mat. Engg.	2207105028 (IGIT)	Priyaranjan Sahoo	Effect of Super Heat Temperature on the Billet Macrostructure and Microstructure in the Continuous Casting Process of 20MnCr5 Grade Steel with	Co-Guide: Mr. Bhabani Prasad Sahoo

					Hardenability of the Steel Grade.	
3	2023	Met. & Mat. Engg.	2107105046 (IGIT)	Sushree Subhasmita Nayak	Effect of Manganese on Microstructural Behaviour of Al-14Si Alloy	Co-Guide: Mr. Bhabani Prasad Sahoo
4	2022	Met. & Mat. Engg.	2007105073 (IGIT)	Saiananda Sahoo	Synthesis and Characterization of Al-Si-TiB ₂ /Al ₂ O ₃ <i>In-situ</i> Hybrid Composites	Co-Guide: Mr. Bhabani Prasad Sahoo
5	2022	Industrial Met.	2007105054 (IGIT)	Sachin C.	The Effect of Homogenization Process and Hardening on Al-Mg-Si Alloy (6063) and Mechanical Properties of 6063 Series	Co-Guide: Mr. Adityaprasad Sahoo
6	2021	Met. & Mat. Engg.	1907105050 (IGIT)	Mr. Pritam Priyadarsana	Studies on Synthesis and Mechanical Properties of In-situ Al-Si-TiB ₂ Composites	
7	2021	Met. & Mat.	1907105051 (IGIT)	Mr. Sanjay Mundari	Studies on Fabrication and Characterization of In-situ Al-Si-TiB ₂ Composites	
8	2020	Met. & Mat.	1807105016 (IGIT)	Mr. Bhabani Prasad Sahoo	Characterization and Mechanical Properties Enhancement of Al-Si-TiB ₂ in-situ Composites	Co-Guide: Mr. Jayanta Kumar Sahoo
9	2019	Industrial Met.	1707105046 (IGIT)	Mr. Sameer Sahoo	Effect of Process Route (CM, SLM, EBM) on Microstructure and Mechanical Properties of Ti6Al4V Alloy	Dr. Anil Kumar Chaubey Principal Scientist AMT Dept., IMMT, BBSR
10	2018	Met. & Mat. Engg.	1607105040 (IGIT)	Mr. Malaya Kumar Jena	Reduction Roasting Studies of Ferruginous Low Grade Manganese Ore	Co Guide Dr. Sunil Ku. Tripathy, TATA R&D
11	2017	Industrial Met.	1507105102 (IGIT)	Mr. Jadunath S.R.K. Singh	Synthesis and Characterisation of hypereutectic Al-Si-TiB ₂ in-situ Metal Matrix Composites by Stir casting method	
12	2016	Met. & Mat. Engg.	1407105050 (IGIT)	Mr. Jayanta Kumar Sahoo	Effect of Silicon on Wear Behaviour of Al-Si Alloy Reinforced with 5% TiB ₂ In-situ Composite	
13	2014	Mechanical System Design	1207105002 (IGIT)	Mr. Basudev Mishra	Wear Behaviour of Carbonized Coconut Shell Powder Reinforced Epoxy Composites	Co Guide: Mr. S.Majhi, ME Dept. IGIT

Research project(s)	
Under the Department	Metallurgical and Materials Engineering, IGIT Sarang
Principle Investigator	Mr. Sandeep Kumar Sahoo
Co-Investigator	Mr. Jayanta Kumar Sahoo
Sponsoring Agency	TEQIP-III
Date of sanction	Date: 27-12-2019
Title	Enhancement of properties of hypereutectic Al-Si alloys by in-situ reinforcement
Duration (from – to-)	27-12-2019 to 30-09-2020(Extended)
Amount sanctioned, in Rs.	3,00,000 (Three Lakhs)
Any other information	Vide IGIT Office Order No-269 Dated 27-12-2019

Sandeep Kumar Sahoo