

BIODATA

PERSONAL DETAILS

NAME:- JOGENDRA MAJHI

FATHER'S NAME:- LATE GIPINATH MAJHI.

CATEGORY:- ST

DATE OF BIRTH:- 24.05.1977

NATIONALITY:- INDIAN

PERMANENT ADDRESS:- AT- KULDIHI, PO- BALIBANDYA, VIA- JHUMPURA, DIST- KEONJHAR, ORISSA, PIN – 758031.

CORRESPONDENCE ADDRESS:- QUARTER NO:-D-1, IGIT SARANG, DIST-DHENKANAL, ODISHA-759146.

EMAIL ID:- jogia7924@gmail.com, jogendra.majhi@igitsarang.ac.in, **Ph. No:** 6370180273

Aadhaar No: 2284 2586 8793



A. EDUCATIONAL QUALIFICATIONS:

SL.NO	NAME OF EXAM	NAME OF SCHOOL / COLLEGE	YEAR OF PASSING	BRANCH	DIVISION	%AGE OF MARKS
1	10 TH	Balibandha high school	1993	General (Oriya medium)	2 nd	47.6
2	+2 SC.	AVM College Sirigida	1997	Science	2 nd	57.33
3	B.E	IGIT Sarang	2002	Metallurgy	1 st	63.6
4	M.TECH	IIT Kharagpur	2005	Metallurgy	1 st	69.9
5	PhD	IGIT Sarang	2023	Metallurgy	Dt. 02-11-2023	

PhD Project Title: **Microstructure-Property Correlation in Hypereutectic Al-Si alloys**

B. NPTEL COURSES, AICTE CERTIFIED COURSES:

Sl.No.	Course Details	Duration	Results (%)
1	Welding Processes	Jan 2020 to April 2020	90
2	Theory and Practices on Non-Destructive Testing	Jan 2021- March 2021	61
3	Development of Sociology in India	Jan 2023 to Feb 2023	68
4	Module 1: Orientation towards Technical Education and Curriculum Aspects	Phase - I - Eight Module MOOC Courses: Sept.- Oct 2023 Session of “NITTT”	79.7
5	Module 2: Professional Ethics & Sustainability		78.5
6	Module 3: Communication Skills, Modes & Knowledge Dissemination		80.1
7	Module 4: Instructional Planning and Delivery		66.7
8	Module 5: Technology Enabled Learning & Life Long Self Learning		87.4
9	Module 6: Student Assessment and Evaluation		83.2

10	Module 7: Creative Problem Solving, Innovation and Meaningful R & D		74.8
11	Module 8: Institutional Management & Administrative Procedures		71.7
12	Technical Communication for Engineers	July-Aug 2024	75%
13	Teaching And Learning in Engineers (TALE)	Jan-Feb 2025	75%
14	Aluminium based Alloys and Metal Matrix Composites	Jul-Oct 2025	60%

C. WORKING EXPERINCES:

I. INDUSTRIAL WORKING/TRAINING EXPERIENCES (5+ Years):

SL. NO	PLACE OF WORKING/TR AINING	DESGINATION	WORKING PERIOD	NATURE OF WORK
1	HAL Koraput	Engineer	26.02.2010 - 15.03.2012	In-charge of Methods (Preparing & editing the new technologies for aircraft parts)
2	HAL Koraput	Asst. Engineer	20.01.2007 - 25.02.2010	In-charge of investment castings, melting and fettling for precious engine parts as well as all auro engine blades.
3	M/s.Narbheram Power and Steel Pvt. Ltd., Dhenkanal	Training (DRI Plant)	20.10.2012 to 29.10.2012	Practical involvement for DRI production.
4	M/s Narbheram Power and Steel Pvt. Ltd.	Training (Steel and power Production)	22.05.2023 to 05.06.2023	Practical experiences for agglomeration, sintering and continuous steel casing production.

II. TEACHING EXPERIENCES (11+ Years):

SL. NO	PLACE OF WORKING	DESGINATION	WORKING PERIOD	NATURE OF WORK
1	IGIT SARANG	Asst. Prof.	19.03.2012 to Till Date	Teaching (IGIT/Estt- 1416)
2	IGIT SARANG	GUEST LECTURER	June'05-Dec,06	Teaching

D. PUBLICATIONS/CONFERENCES:

- Adityaprasad Sahoo, Sandeep Kumar Sahoo, Jogendra Majhi, Himansu Sekhar Dash, Ashok Kumar Pradhan: The synergetic effect of in-situ TiB₂ and ex-situ Al₂O₃ in Al-Si binary alloys for the enhancement of wear properties, <https://doi.org/10.55670/fpll.futech.5.2.21>, Future Technology, May 2026| Volume 05 | Issue 02 | Pages 221-227.
- Sandeep Kumar Sahoo, Jogendra Majhi, Suresh Chandra Pattnaik, Bhabani Prasad Sahoo, Adityaprasad Sahoo, Microstructure characterization and dry sliding wear behaviour of Al-Si near eutectic and hypereutectic

alloys reinforced with insitu TiB₂ synthesized by stir casting route, doi.org/10.1007/s43939-024-00163-w, Dec 2024, Discover Materials.

3. J. Majhi, S.K. Sahoo, A.P. Sahoo, B.P. Sahoo, Stimulation of microstructure and wear properties by pouring temperatures of Al-Si-Al₂O₃ hypereutectic alloy, DOE: 10.1016/j.matpr.2023.07.012, July 2023, Materials Today Proceedings 91 (11).
4. S.K. Sahoo, J. Majhi. B.P. Sahoo, A.P. Sahoo, S. Sahoo, Synthesis and wear properties of near eutectic Al-Si-TiB₂/Al₂O₃ hybrid composites, DOE: 10.1016/j.matpr.2023.05.279, May 2023, Materials Today Proceedings 91(1-6).
5. Saroj Kumar Sahu, Rahul Kumar Patra, Jogendra Majhi, Effect of addition of 3 %Al₂O₃ on mechanical and microstructural properties in Al-16Si hypereutectic alloys with pouring temperature, DOI: 10.1016/j.matpr.2022.04.638, Materials Today: Proceedings 62(4) (2022).
6. 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, DOI: 10.1016/j.matpr.2022.04.638, Materials Today: Proceedings 62(11) (2022).
7. 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% Al₂O₃ Hypereutectic Alloys, doi.org/10.1016/j.matpr.2020.03.496, Materials Today: Proceedings (2020) p- 5539-5543.
8. 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/TiB₂ *in situ* composites, <https://doi.org/10.1016/j.matpr.2020.03.493>, Materials Today: Proceedings (2020) p-5530-5533.
9. SK. Sahoo, B. Sarangi, S C. Patnaik, J. Majhi , AK. Biswal, BP. Sahoo, Studies on in-situ TiB₂ reinforced Al-Si alloys synthesized by stir casting method, <https://doi.org/10.1016/j.matpr.2020.03.115>, Materials Today: Proceedings (2020).
10. S.K. Sahoo, S.C.Mishra, B. Sarangi, S.C. Patnaik, J. Majhi, A Literature Review on Al-Si-TiB₂ Insitu Metal Matrix Composites, Journal of Materials & Metallurgical Engineering. DOI: 10.37591/jomme.v9i2.2484, July-2019.
11. S. K. Sahoo, J. Majhi, A.B. Pattnaik, J.K. Sahoo, & S. Das, Mechanical properties enhancement and microstructure study of Al-Si-TiB₂ in situ composites, IOP Conf. Series: Materials Science and Engineering 338 (2018) 012060 doi:10.1088/1757- 899X/338/1/012060.
12. J. Majhi S. K. Sahoo, S. C. Patnaik, B. Sarangi, A. Behera, Effect of Pouring Temperature in Al-16Si-1Al₂O₃ Hypereutectic Alloys, International Journal for Scientific Research & Development| Vol. 6, Issue 07, 2018 | ISSN (online): 2321- 0613.
13. J.Majhi, J.K.Sahoo,S.C. Patnaik, B.Sarangi, S.K.Sahu, Effect of addition of 2%Al₂O₃ 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 p-181-184.
14. S.K. Sahoo, J. Majhi, B. Sarangi, S.C. Patnaik, J.K. Sahoo, Processing and characterization of in-situ Al-Si-2TiB₂ Composites, International Journal of Scientific & Engineering Research Volume 9, Issue 4, April-2018, ISSN 2229-5518, p-177-180.
15. 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.

16. S. K. Sahoo, J.Majhi, J. K. Sahoo, A. K., Bairagi, S. Sahoo, & B.P.Sahoo, Dry Sliding Wear Behaviour of Al-Si-TiB₂ In-Situ Composites, International Journal of Advanced Mechanical Engineering, ISSN 2250-3234 Volume 8, Number 1 (2018), pp. 27-36.
17. 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.
18. S.K. Sahoo, J. Majhi, S.C. Patnaik, A. Behera, J.K.Sahoo, & B.P. Sahoo, Characterisation of Al-Si-TiB₂ In-situ Composite Synthesised by Stir Casting Method, Elixir Materials Science 113, 49066-49069 (2017).
19. S. Pradhan, S.K. Jena, S.C. Patnaik, P.K. Swain, J. Majhi, Wear characteristics of Al-AlN composites produced in-situ by nitrogeneration, IOP Conference Series: Materials Science and Engineering, Vol:75, Issue:1, pp. 012034, IOP Publishing, 2015.
20. J.Majhi, S.C.Patnaik & S.K.Sahoo, Isothermal Oxidation Behavior of MoSi₂, Multi-Objective Optimization using Metaheuristic Approaches in Various Engineering Applications (MOMAVEA-2013) I G I T, Sarang, Orissa, India.
21. S.K.Sahoo, S.C.Patnaik & J.Majhi, Mechanical Properties Enhancement of Ductile Iron by Austempering and Copper Addition, Multi-Objective Optimization using Metaheuristic Approaches in Various Engineering Applications (MOMAVEA-2013) I G I T, Sarang, Orissa, India.
22. 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, ISSN 2231 - 3818, Vol 3 No 2.
23. P.K.Mallik, S.K.Sahoo, S.C.Patnaik & J.Majhi, A comparative study on the densification of spark plasma sintered with microwave and conventional sintered zirconia ceramics, National Conference On Modern Trends in Engineering solutions(NCMTES-2013), I G I T, Sarang, Orissa, India.

E. SHORT TERM COURSE/ TRAINING PROGRAMME ORGANIZED:

Sl. No.	Date	Coordinator(s)	Title	Department	Funding Agency
1	1 week (2 nd – 6 th Sept 2021)	Mr. Jogendra Majhi, Mr. Sandeep Kumar Sahoo	STC on Advances in Materials and Processing (AMPC-2021)	MME Dept., IGIT Sarang	Self
2	1 week (24 th -28 th Feb 2020)	Mr. Jogendra Majhi, Mr. Sandeep Kumar Sahoo	STC on Advances in Materials and Processing (AMPC-2020)	MME Dept., IGIT Sarang	TEQIP-III

F. SHORT TERM COURSE/ TRAINING PROGRAMME:

Sl. No.	Duration		Details of Short term Courses/ Training Programme	Organization
	From	To		
1	20 th Oct 2012	29 th Oct 2012	Training in DRI Plant	M/s.Narbheram Power and Steel Pvt. Ltd., Dhenkanal
2	17 th March 2014	29 th March 2014	Short Term Course on Statistics for Experimentalists	Dept. of Chemical Engg., IIT Madras
3	11 th July	16 th July	Short Term Training Programme on	Mechanical Engineering

	2016	2016	Emerging Trends in Energy Management & Their Applications (ETEMA-2016)	Dept., IGIT Sarang
4	19 th Dec 2016	24 th Dec 2016	QIP Short Term Course on Principles of Steel Making	IIT Bombay
5	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
6	6 th March 2018	7 th March 2018	Workshop on Outcome based Accreditation for UG PG Engineering Program	NPIU (TEQIP-III), IGIT Sarang
7	12 th March 2018	16 th March 2018	Short Term Programme on Nanomaterials Science and Technology	MME Dept., IGIT Sarang
8	28 th May 2018	1 st June 2018	Workshop on Active learning, Autonomy, Academic Governance and R & D	Dept. of Management Studies IIT Roorkee
9	17 th July 2018	21 th July 2018	Applications of Chemical Engineering in Natural Resources (AChENRI)	TEQIP-III Sponsored National Workshop, IGIT Sarang
10	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
11	21 st February 2019	25 th February 2019	Process Metallurgy and Its Environmental Impact	NIT Rourkela
12	16 th December 2019	28 th December 2019	Fundamentals of processing and properties of Nanomaterials	MME Dept., IGIT Sarang
14	8 th Feb 2020	9 th Feb 2020	Certificate Characterization & Mechanical Properties enhancement of Al-Si-TiB ₂ insitu-composites	INALT 2020, S&T training institute, Nalco, Angul
15	24 th Feb 2020	28 th Feb 2020	Advances in Materials Processing	MME Dept., IGIT Sarang
16	13 Aug 2020	17 Aug 2020	Workshop on Advancements in Materials and Manufacturing Systems (AMMS-2020)	MANIT, Bhopal, MP
17	8 th Sept 2020	12 th Sept 2020	Advances Materials Processing, Characterization & applications. (AMPCA-2020)	VSSUT. Burla
18	7 th Sept 2020	11 th Sept 2020	CSSR-2020: Current Scenario on Steel Research	VSSUT. Burla
19	14 th Sept 2020	19 th Sept 2020	One Week National Webinar on Advances in Production Engineering	PE, IGIT Sarang
20	19 th October 2020	23 rd October 2020	Recent Advances in Materials Characterization Techniques.	MME, NIT AP.
21	9 th November 2020	13 th November 2020	Transport phenomena in Industrial Processes	MME, IGIT Sarang
22	23 rd - February 2021	27 th - February 2021	Concepts & Applications of Composite Materials	ME, IGIT Sarang
23	19 th -April 2021	23 rd -April 2021	Metallurgical Aspects in Additive Manufacturing	MME, NIT AP

24	2 nd Sept 2021	6 th Sept 2021	Advances in Material Processing & Characterization	MME, IGIT Sarang
25	9 th -Dec 2022	22 nd Dec 2022	SIP 2021	IGIT Sarang
26	12 th Nov 2022	13 th Nov 2022	Recent advances in Materials and Mechanics (RAMMM)	IIT Bhubaneswar
27	12 th Dec 2022	16 th Dec 2022	Advance Manufacturing Processes	MNIT Jaipur
28	18 th March-2023	26 th March-2023	Characterization and testing of Components Following Laser Materials Processing including Surface Engineering and Additives Manufacturing	IIT Kharagpur
29	6 th May-2023	7 th May-2023	International Conference on Emerging Trends in Engineering and Technology- Industry 4.0 (ETETI-2023)	IGIT Sarang
30	22 May-2023	4 th June-2023	Industrial Training in M/s Narbheram Power and Steel Pvt. Ltd.	Dhenkanal, Odisha
31	5 th Aug-2024	10 th Aug-2024	Technological Advancement in Synthesis of Novel Materials	CBIT, Hyderabad
32	5 th Aug-2024	10 th Aug-2024	Technological Advancement in Synthesis of Novel Materials	CBIT, Hyderabad
33	4 th Nov-2024	9 th Nov-2024	Robotics and Industrial Automation	CBIT, Hyderabad
34	24 th Feb-2025	1 st Mar-2025	Sustainable Manufacturing and Advanced automation in Industries	IGIT Sarang
35	7 th April 2025	9 th April 2025	Bloom's Taxonomy and Comprehensive Learning Process	Electronics and ICT Academy, NIT Patna
36	19 th May 2026	30 th May 2026	Hybrid Composite Material-Based Supercapacitors for Next Generation Portable Energy Storage Electronics	Electronics and ICT Academy, NIT Patna
37	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

G. RESEARCH WORK GUIDED:

Ph.D

Sl No.	Year of Subm ission	Course	Regn. No. (Institute)	Name of the Candidate	Title of the Thesis	Remarks
1	Conti nuing	Ph.D	Enrolment No. MTD24001	Mr. Adityaprasad Sahoo	<u>Fabrication, Characterization of Metal Matrix Composites</u>	Submitted

M.Tech

Sl No.	Year of	Course	Regn. No. (Institute)	Name of the Candidate	Title of the Thesis	Remarks
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	Subm ission					
1	2024	MTech	2207105030	Mr. Sujit Kumar Bal	Properties Co-relations of Al-Si-Al ₂ O ₃ -SiC hybrid Composites	Submitted
2	2022	MTech	2007105072	Miss Pooja Bahera	Microstructures-properties of Al ₂ O ₃ -SiC composite	Submitted
3	2022	MTech	2007105076	Miss Sitanjali Khuntia	Effect of nano-Al ₂ O ₃ on Al-15Si-2SiC Al-hypereutectic hybrid composite	Submitted
4	2021	MTech	1907105049	Miss Krushnapriya Jena	Effect Of Manganese on Microstructural Behaviour of Al-14 Si Alloy	Submitted Topper of the Batch
5	2020	MTech	1707105081	Mr. Adit Prasad Mishra	Effect of Manganese on microstructural- properties of Al-Si Hypereutectic alloy	Submitted (2019 Batch)
6	2020	MTech	1707105049	Mr. Bhakta Charan Soren	Effect of Manganese on microstructural and Mechanical property co-relation in Al-1%Ti alloy	Submitted (2019 Batch)
7	2018	M Tech	1607105041	Mr. Saroj Kumar Sahu	Effect Of Temperature & Alumina On The Mechanical & Microstructural Behaviour Of Al-16%Si Hypereutectic Alloy	Submitted
8	2017	M Tech	1507105110	Ms. Smruti Sagarika Pradhan	Effect Of Alumina In Microstructural And Mechanical Properties Of Al-16%Si Hypereutectic Alloy	Submitted

H. RESEARCH PROJECTS (DETAILS):

Sl. No.	Project Details	Amount sanctioned (Rs.)	Year of Sanction	Status
1	Self Project-I (TEQUIP-III)	3,00,000/-	Nov-2019	Completed on Sept-2020
2	Self Project-II (TEQUIP-III)	30,000/-	Nov-2019	Completed on Sept-2020
3	Self Project-III (TEQUIP-III)	27,000/-	Nov-2019	Completed on Sept-2020

I. SPORTS, CULTURAL AND SOCIAL ACTIVITIES (From-2023 onwards):

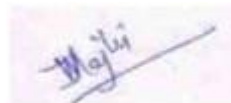
Sl. No.	Details	Session	Duration(s)
1.	Integrated Youth Development Programme (IYDP), NUA-O (Intramural Competitions: Football, Basketball, Volleyball, Badminton, Cricket, Gully cricket (Girls), Kabaddi, Chess, Athletics) Both for Diploma and Degree.	2023-24	15 th Nov.-2023 to 15 th Jan-2024

2.	AAM (Every Year)	From 2023 to Till date	Month of November
3.	FUN Fair (Every Year)	From 2023 to Till date	1 st April Every Year
4.	Anti-ragging Squad/Anti ragging duty	From 2023 to Till date	From the month of January to end of the ODD Semester

J. PROFESSIONAL MEMBERSHIPS/INVOLVEMENT:

Sl. No.	Details	Duration(s)
1.	Life Member of Indian Institute of Metals.	Membership Number- 41656
2.	VP-SPER	From 2019
3.	Members of T & P, IGIT Sarang	From 2012 to 2023
4.	Departmental BOS member	From 2012
5.	Institutional BAS member	From 2014
6.	Departmental coordinator for Institutional Website	From 2019
7.	Time Table Coordinator	From 2015-2019, 2023-2025
8.	Departmental NBA Coordinator	From 2017 onwards
9.	Diploma Coordinator	From 2012 to 2022, 2024 to till date

Place: - IGIT Sarang
Date:-14-07-2026



(Jogendra Majhi)