Dr. Kashinath Barik

Assistant Professor
Department of Chemical Engineering
IGIT Sarang, Dhenkanal, Odisha-759146
Mob: +91-9438546189
Email: kashinath.barik@igitsarang.ac.in
kashinath.009@gmail.com

Date: 6.05.2026

Educational Qualification

Sl. No.	Degree/ Certificate	Year of Passing	University/ Institute	Subjects/Area
1	10th	2001	BSE Odisha	State Medium
2	12th	2003	CHSE Odisha	Science
3	BTech	2009	IGIT Sarang	Chemical Engineering
4	MTech	2011	IIT Kharagpur	Chemical Engineering
5	PhD	2023	IIT (ISM) Dhanbad	Fuel, Mineral, and Metallurgical Engineering

Area of Specialization: Mechanical Operations, Mining and Metal Waste Utilization, Transport Phenomena, and Modeling & Simulation

PhD Thesis: Studies on Pelletization Process for Effective Utilization of High LOI Indian Iron Ore Resources

Academic/Research Experience

Sl. No.	No of Years	From	To	Name of Organisation	Position held	Appointment order
1	1	July 2011	May 2012	NIT Warangal	Ad hoc Teaching Faculty	
2	2	June 2012	July 2014	IIT Kanpur	Research Scholar	
3	12	July 2014	Onwards	IGIT, Sarang	Assistant Professor	

Number of PhD/M.Tech/B.Tech Guided

***Ph. D: 4* (Ongoing)**

1. **Co-Supervisor,** Ramesh Kumar Ekka (Chemical Eng., Roll No: CHD23802), Topic: Industrial Waste Utilization, Date of Enrolment: 18.08.2023
2. **Co-Supervisor,** Deepesh Kumar Biswal (Chemical Eng., Roll No: CHD23803), Topic: CO_2 Absorption, Date of Enrolment: 18.08.2023
3. **Co-Supervisor,** Himanshu Sahu (Metallurgical & Materials Eng., Roll No: MTD23901), Topic: Utilization of Fly Ash, Date of Enrolment: 18.08.2023

4. **Co-Supervisor,** Mrs. Sabita Kumari Rout, AcSIR, CSIR-IMMT (Mineral Processing, Enrollment No. 20EE25A36008, Supervisor: Dr. Pallishree Prusti, Sr. Principal Scientist, CSIR-IMMT Bhubaneswar), Topic: Utilization of byproducts and wastes of Iron and steel Industries in Pelletization

M. Tech: 7 (Completed)

1. **Guide:** Arpita Sahoo, 2017-2019, Topic: A Comparison study of Basic pellets in concern to their Pellets in Concern to their feed characteristics, **Completed**
2. **Guide:** Smruti Smita Tripathy, 2017-2019, Topic: Effects of Additives in Pelletization of Hematite Fines Concentrate, **Completed**
3. **Guide**: Rajalaxmi Behera, 2019-2021, Topic: Preparation of bio-plastic Using Starch Derivatives, **Completed**
4. **Co-guide:** Surendra Nath Dandasena, 2019-2021, Co-Guide, Topic: Wet Coal Beneficiation, **Completed**
5. **Guide:** Guddirani Kansaral, 2020-2022, Topic: Preparation and Characterization of bio-plastic Using Starch Derivatives. **Completed**
6. **Co-guide:** Nikhil Ranjan Dash, 2021-2023, Topic: Binder Alternatives for the Pelletization of Blue Dust Fines, **Completed**
7. **Guide:** Sumanta Mohanta, 2022-2024, Topic: Performance and Evaluation of Petroleum Hydrocarbon Degrading Bacteria for Total Hydrocarbon Degradation of Paradip Refinery Sludge, **Completed**

B. Tech: 45 (Topic 1: Preparation of Bio-plastic appliances using starch derivatives.)
(Topic 2: Preparation and characterization of activated carbon from ridge gourd)
(Topic 3: Electro-hydro-dynamic Instability of liquid-liquid Cylindrical Interface)
(Topic 4: Application of activated carbon generated from ridge gourd in water purification)

Courses Taught:

For UG Students:

- Transport Phenomena
- Chemical Engineering Mathematics & MATLAB
- Fluid Flow and Flow Measurement
- Thermodynamics
- Mechanical Operation

For PG Students:

- Advanced Fluid Dynamics
- Advanced Mass Transfer

Laboratory Class (Both for UG & PG):

- Fluid Mechanics Laboratory

- Mechanical Operation Laboratory
- Process Dynamic Control Laboratory
- Simulation and Modeling with MATLAB

Professional Affiliations:

- **Indian Institute of Chemical Engineers (IIChE),** 2018, Associated Member (LAM-53471)
- **Institute of Engineers India (IEI),** Associated Member (AM-1712759)
- **Indian Institute of Mineral Engineers (IIME),** Life Member (LM-1305)
- **Mining, Minerals, Metals, and Materials Society of India (4MSI),** Life Member (LM-067)

Research Collaboration:

1. **NIT Rourkela, Odisha**
    - In collaboration with Dr. Soumya S. Mohapatra, Assistant Professor, Dept. of Chemical Engineering.
    - In collaboration with Dr. Ajit Behera, Assistant Professor, Dept. of Metallurgical & Materials Engineering
2. **University of Calcutta, West Bengal**
    - In collaboration with Dr. Sudip Kumar Dash, HOD & Professor, Dept. of Chemical Engineering
3. **CSIR-Institute of Minerals and Materials Technology, Bhubaneswar, Odisha**
    - In collaboration with Dr. (Mrs.) Pallishree Prusti, Principal Scientist, Dept. of Mineral Processing, CSIR-IMMT Bhubaneswar

Projects/Publications:

Completed Project

1. **K. Barik**, "Fabrication of low-cost Starch/Polyvinyl Alcohol/Citric Acid blend films for bio-plastic appliances from Biomass/Solid Waste, "**TEQIP-III** Seed Money Grant (**3 Lakhs)**, Ref No. 269/IGIT Sarang, Dated: 27.12.2019

2. Undergraduate Twining Project with Dr. Sudip Das, Professor & Head, Chemical Engineering Department, University of Calcutta, under **TEQIP-III Twining Program of Budget Rs. 43410/-** for the major project of 8^{th} semester B. Tech students of the Academic year 2018-19, IGIT Sarang.

Ongoing Project

1. **K. Barik,** D. Das, "Preparation of synthetic inorganic binder from iron ore tailings for iron ore pelletization, Project No. SNTMOM/1613/2025, Ministry of Mines, Govt. of India, Project Cost: 8,00,000/-, Project Duration: 1 year

International/National Journal:

1. **K. Barik**, P. Prusti, N.R. Dash, and I.D. Behera, Utilization of blue dust fines through composite pelletization using an optimized binder system. Powder Technology, 2026, p.122343. (https://doi.org/10.1016/j.powtec.2026.122343)
2. D.K. Biswal, D. Das, **K. Barik**, and S.K. Behera, "Development of KOH-impregnated activated carbon from coal for carbon dioxide capture," Journal of Environmental Science and Health, Part A, 2026, pp.1-20. (https://doi.org/10.1080/10934529.2026.2636414)
3. N.D. Rao, J.K. Sadangi, **K. Barik,** A.T. Mishra, A.K. Sahu, D.N. Thatoi, and S.K. Biswal, "Rheological study of Indian iron ore tailings and correlated to its mineralogical characteristics," Particulate Science and Technology, 2025, pp.1-9. (https://doi.org/10.1080/02726351.2025.2602016)
4. H. Sahoo, P. K. Mallik, and **K. Barik**, "Microstructural and functional characterization of sintered fly ash," Engineering Research Express, Vol. 6 (2024) 035412 (doi:10.1088/2631-8695/ad6530)
5. **K. Barik,** P. Prusti, S. Soren, B. C. Meikap, and S. K. Biswal, "Mineralogical investigation on preheating studies of high LOI iron ore pellet," Powder Technology, Vol. 418 (2023) 118315 (https://doi.org/10.1016/j.powtec.2023.118315)
6. **K. Barik,** P. Prusti, S. Soren, B. C. Meikap, and S. K. Biswal, "Analysis of Iron Ore Pellets properties Concerning Raw Material Mineralogy for Effective Utilization of Mining Waste" *Powder Technology,* Vol. 400 (2022) 117259 (https://doi.org/10.1016/j.powtec.2022.117259)
7. **K. Barik,** P. Prusti, B. C. Meikap, S. Soren, R. Venugopal, and S. K. Biswal, "Investigation on Loss on Ignition to Study the Effect of Iron Ore Mineralogy in Green Pellet Growth Kinetics," *IIM Transactions of The Indian Institute of Metals*, Vol. 75, 481-493, 2022 (https://doi.org/10.1007/s12666-021-02449-6)
8. **K. Barik***, P. Prusti and S. S. Mohapatra, "Dried ridge gourd: an excellent source for eco-friendly activated carbon," Indian Journal of Chemical Technology, Vol. 28 (2021) 217-223 (http://nopr.niscair.res.in/handle/123456789/57455)
9. P. Prusti, **K. Barik**, N. Dash, S. K. Biswal, and B. C. Meikap, "Effect of Limestone and Dolomite Flux on the Quality of Pellets using High LOI Iron Ore," *Powder Technology*, Vol. 379 (2021) 154-164 (doi: 10.1016/j.powtec.2020.10.063)
10. **K. Barik**, B. Swain, A. Behera, S. Chitransh, and S. S. Mohapatra, "The Experimental and Numerical Investigation on the Enhancement of Stagnation and Parallel Zones of

Laminar Jet," *Thermal Science and Engineering Progress,* Vol. 19 (2020) 100649 (doi:10.1016/j.tsep.2020.100649)

11. P. Prusti and **K. Barik***, "Effect of Additives Concentration on Pelletization of High-Grade Hematite," *Materials Today: Proceedings 33 (2020) 5373–5377* (doi:10.1016/j.matpr.2020.03.118)
12. **K. Barik**, B. Swain, A. R. Pati, S. Chitransh, and S. S. Mohapatra, "Co-axial Laminar Multiphase Jet: A Novel Methodology for the Attainment Enhancement in Transition Boiling Regime," Published online May 10, 2020, *Journal of Thermal Science and Engineering Applications,* Feb 2021, 13(1): 011010 (11 pages), Paper No. TSEA-19-1509, (doi:10.1115/1.4047165)
13. **K. Barik**, S. Chitransh, A. R. Pati, B. Swain, A. Behera, and S. S. Mohapatra, "The Enhancement of Laminar Jet Cooling Effectiveness at Very High Surface Temperature by Using Al_2O_3 Nano Fluid as a Coolant", online on January 27, 2020, *Heat Transfer-Asian Research* (doi:10.1002/htj.21676)
14. L. Das, A. R. Pati, A. Panda, B. Munshi, D. K. Sahoo, **K. Barik**, A. Sahoo, and S. S. Mohapatra, "The Enhancement of Spray Cooling at Very High Initial Temperature by Using Dextrose added Water", *International Journal of Heat and Mass Transfer*, Volume 150, April 2020, 119311, (doi:10.1016/j.ijheatmasstransfer.2020.119311).
15. **K. Barik***, P. Prusti, and S. S. Mohapatra, "Single and Multi-objective Optimization of a Cooling and Anti-Solvent Crystallization Process by ACADO Toolkit," *Indian Chemical Engineer,* Vol. 62 (3) 287-300, 2020 (doi:10.1080/00194506.2019.1677511)
16. S. S. Mohapatra, S. Pradhan, A. R. Pati, and **K. Barik**, "Theoretical and Experimental Investigation of the Role of Viscosity and Surface Tension in Dropwise Evaporation at Very High Substrate Temperature," *Thermal Science and Engineering Progress*, Vol. 9, 200-214, March 2019 (doi:10.1016/j.tsep.2018.11.007)
17. Lily, B. Munshi, **K. Barik**, and S. S. Mohapatra, "The Role of Surface Tension and Viscosity of the Coolant on Spray Cooling Performance of Red-Hot Inclined Steel Plate," *International Journal of Heat and Mass Transfer*, Vol. 130, pp. 496–513, 2019 (doi:10.1016/j.ijheatmasstransfer.2018.07.028)
18. A. R. Pati, S. Mondal, A. Dash, **K. Barik**, B. Munshi, and S. S. Mohapatra, "Oil-in-Water Emulsion Spray: A Novel Methodology for the Enhancement of Heat Transfer Rate in Film Boiling Regime, *International Communication in Heat and Mass Transfer*, Vol. 98, 96-105, November 2018 (doi:10.1016/j.icheatmasstransfer.2018.08.006)
19. B. Swain, A. Patnaik, S. K. Bhyan, **K. Barik**, S. K Sethi, S. Samal, S. C. Mishra, A. Behera, "Solid particle erosion wear on plasma sprayed mild steel and copper surface," *Materials Today: Proceedings*, Vol. 5, pp. 20403–20412. 2018 (doi:10.1016/j.matpr.2018.06.415)
20. B. K. Swain, S. S. Mohapatra, A. Pattanaik, S. K. Samal, S. K. Bhuyan, **K. Barik**, D. K. Sahoo, A. Behera, "Sensitivity of process parameters in atmospheric plasma spraying" *Journal of Thermal Spray and Engineering*, 1(1):1-6, 2018 (doi: 10.jtse/2582-1474/1-1.1)

21. H. K. Sutar, **K. Barik**, A. K. Bairagi, and R. Murmu, "Hydrodynamic Behavior of Common Salt Water (NaCl Solution) in a Glass-Beads Packed Cylindrical Fluidized Bed," *American Chemical Science Journal*, Vol. 9(2), 2015 (doi:10.9734/ACSJ/2015/20086)
22. C. S. Rao, and **K. Barik**, "Modeling, Simulation and Control of Middle Vessel Batch Distillation Column," *Procedia Engineering*, Vol. 38, 2383-2397, 2012 (doi:10.1016/j.proeng.2012.06.285)
23. D. K. Biswal, V. Kumar, and **K. Barik**, "Dispersion Modeling of Jaipur Fire, India," *Research Journal of Chemical Sciences*, Vol. 2(2), pp. 1-9, Feb. 2012 (http://www.isca.in/rjcs/Archives/v2/i2/1.pdf)

Book Chapter

1. R. K. Ekka, R. Badra, I. D. Behera, M. Bal, **K. Barik**, A. P. Das, (2025), "Enhanced Biodegradation of Petroleum Hydrocarbon-Contaminated Soil by Using Organic Amendment as a Sustainable Solution". In Emerging Micropollutants: Status in the Environment and Management through Bioremediation (pp. 741-773). Cham: Springer Nature Switzerland. Online ISBN 978-3-032-03530-1, https://doi.org/10.1007/978-3-032-03530-1_31

2. D. Das, S. Rautaray, **K. Barik**, D. K. Biswal, (2025), "Comparative Analysis of CO_2 Adsorption Capacity for Amine-Modified Activated Carbon Prepared from Jujube Seed", In Roshan Dash, R., Mohapatro, S., Behera, M. (eds) Pollution Control for Clean Environment — Volume 2. ICPCCE 2023. Lecture Notes in Civil Engineering, vol 416. **Springer**, Singapore. ISBN 978-981-97-7845-4, https://doi.org/10.1007/978-981-97-7846-1_11

3. P. Prusti, **K. Barik**, D.K. Sahu, S. Soren, B.C. Meikap, S.K. Biswal, (2022). Recycling and Reuse of Iron Ore Pellet Fines. In: Prasad, R., Sahu, R., Sahoo, K.L., Jadhav, G.N. (eds) Advancement in Materials Processing Technology. Springer Proceedings in Materials, Vol. 12. **Springer**, Singapore. ISBN 978-981-16-3296-9, https://doi.org/10.1007/978-981-16-3297-6_17

4. A. Behera, B. Behera, D.K. Sahoo, A. Pattnaik, **K. Barik**, P. Mallick, S. Bhuyan, S.C. Mishra, A. Behera (2021), "Effect of Cold Work on Microstructure and Corrosion Properties of 304L Stainless Steel", Pant, P., Mishra, S. K., & Mishra, P. C. (Eds.). (2021). Advances in Mechanical Processing and Design, pp. 433-439. **Springer** Lecture Notes in Mechanical Engineering. ISBN: 978-981-15-7778-9, https://doi.org/10.1007/978-981-15-7779-6_37

5. **K. Barik**, "Investigation on Bioplastic Prepared from Rice/Corn/Potato/Wheat Starch." 39th National Convention of Chemical Engineers 2024, The Institute of Engineers India (IEI), Odisha State Center, Bhubaneswar, pp. 45-49, ISBN: 978-81-973369-9-7

6. **K. Barik***, P. Prusti, "Green and Dry Characteristics of Iron Pellet: Examining the Potential of Iron Ore Tailings as Binder", 64th Annual Technical Session 2025, Sustainable Advancement in Engineering, The Institute of Engineers India (IEI), Odisha State Center, Bhubaneswar, pp. 208-214, ISBN: 978-81-973369-5-9

Papers in International/National Conference Proceedings:

1. P. Prusti, N. R. Dash, I. D. Behera, **K. Barik***, "Utilization of Blue Dust Fines through Pelletization by Blending with Bentonite and Organic Binder," 6th International Conference Processing and Characterization of Materials (**ICPCM-2024**), December 5th –7th, 2024, Department of Metallurgical and Materials Engineering, NIT Rourkela.
2. **K. Barik**, P. Prusti and S.K. Biswal, "Utilization of Iron Ore Tailings as Binder in the Pelletization Process," 77th Annual Technical Meeting, The Indian Institute of Metals (IIM), IIMATM2023/A-206, 22nd-24th November 2023
3. P. Prusti, **K. Barik**, and S.K. Biswal, "Impact of Mineralogy on Preheating Study of Goethitic-hematite Iron Ore Pellet," 77th Annual Technical Meeting, The Indian Institute of Metals (IIM), IIMATM2023/A-458, 22nd-24th November 2023
4. G. Kansarali, B. Sahoo, **K. Barik**, "Study of bio-plastic prepared from rice/corn/potato/wheat starch," 74th Annual Session of Indian Institute of Chemical Engineers (**CHEMCON-2021**, **Paper ID: ATCE 601**), 26th – 30th December, 2021, CSIR - Institute of Minerals and Materials Technology, Bhubaneswar, India.
5. P. Prusti and **K. Barik**, "Effect of Additives Concentration on Pelletization of High-Grade Hematite," International Conference **ICPCM-2019,** NIT Rourkela, 12th -14th December, 2019
6. **K. Barik**, "Dried Ridge: An Excellent Source for Eco-friendly Activated Carbon," International Conference **ICPCM-2019,** NIT Rourkela, 12th -14th December, 2019
7. A. Sahoo, **K. Barik**, and P. Prusti, "A Comparison Study of Basic Pellets in Concern to their Feed Characteristics," Student Seminar on Challenging Application in Chemical Engineering **(CAChE-2019),** IIChE Bhubaneswar Regional Centre, CSIR-IMMT Bhubaneswar, March 30, 2019 **(Best Oral Presentation)**
8. A. Sahoo, **K. Barik**, D. K. Sahu, and P. Prusti, "Effect of Fluxing Agents on Characteristics of Basic Pellets Prepared from High LOI Hematite Ore," 77th Annual Session of Indian Institute of Chemical Engineers **(CHEMCON 2018, Paper ID: CH O373),** NIT Jalandhar, December 27-30, 2018
9. S. S. Tripathy, P. Prusti, and **K. Barik**, "Effect of Additives in Pelletisation of High-Grade Hematite Fines," 77th Annual Session of Indian Institute of Chemical Engineers (**CHEMCON 2018, Paper ID: CH O375**), NIT Jalandhar, December 27-30, 2018
10. **K. Barik**, P. Prusti, S. K. Biswal, and R. Venugopal, "Modeling and simulation of preheating zone of iron ore pelletization process," Mineral Processing Technology (**MPT 2018, Paper ID: 199**), IIT(ISM) Dhanbad, Jharkhand, October 10-12, 2018 (**Best Poster Award**)

11. P. Prusti, **K. Barik**, D. S. Rao, and S. K. Biswal, "Study of green pellet formation of different LOI iron ore samples," Mineral Processing Technology (**MPT 2018, Paper ID:198**), IIT(ISM) Dhanbad, Jharkhand, October 10-12, 2018
12. **K. Barik** and D. Sarkar, "Model-based Optimization of a Combined Cooling and Antisolvent Crystallization Process," 64th Annual Session of Indian Institute of Chemical Engineers (**CHEMCON 2011**), MS Ramaiah Institute of Technology, Bangalore, India, December 27-29, 2011
13. **K. Barik**, and D. Sarkar, "Multi-Objective Optimization of a Combined Cooling and Anti-Solvent Crystallization Process", 66th Annual Session of Indian Institute of Chemical Engineers (**CHEMCON 2013**), Institute of Chemical Technology, Mumbai, India, December 27-30, 2013
14. **K. Barik**, "Modeling, Simulation and Optimization of a Combined Cooling and Anti-Solvent Crystallization Process," 68th Annual Session of Indian Institute of Chemical Engineers (**CHEMCON 2015**), Indian Institute of Technology, Guwahati, India, December 27-30, 2015
15. **K. Barik**, "Preparation of a Portable Funnel for Water Purification," 69th Annual Session of Indian Institute of Chemical Engineers (**CHEMCON 2016**), A. C. Tech Anna University Chennai and Indian Institute of Technology, Madras, India, December 27-30, 2016

Invited Chairperson/Talk/Subject-expert

- Invited as External Subject Expert for Project Staff Recruitment at CSIR-IMMT, 10.12.2024
- Invited as External Examiner for Project Staff (Post code 7114 & 7116) Recruitment at CSIR-IMMT, 05.07.2024
- Invited talk, National Seminar on Advanced Materials, Nuclear Technology, and Communication Science, Organized by Physics Forum, Department of Physics, IGIT Sarang, 16th-18th March 2020
- Invited Speaker, 2nd International Conference on Processing and Characterization of Materials (ICPCM-2019), Department of Metallurgical and Materials Engineering, NIT Rourkela, 12th -14th December, 2019
- Invited Speaker, Short-term course on Advances in Materials (AIM-2019) organized by Department of Metallurgical and Materials Engineering, NIT Rourkela, Odisha, 21-25th March 2019
- Invited for Session Chair, International Conference on "Seamless Chemical Engineering in Service of Humanity: Innovation, Opportunities & Challenges," NIT Jalandhar, Punjab, CHEMCON-2018, December 27-30, 2018
- Invited talk on Basic Programming in MATLAB, IGIT Sarang, Odisha, Organized by IIChE Student Chapter, Department of Chemical Engineering, April 11, 2015
- Invited talk, National Seminar on Recent Advances in Science and Technology, Organized by Physics Forum, Department of Physics, IGIT Sarang, March 11, 2018

- Invited talk, TEQIP-III Sponsored National Workshop on Applications of Chemical Engineering in Natural Resources, Dept. of Chemical Engineering and University of Calcutta, IGIT Sarang, 17th -July 21, 2018

Responsibility Apart from Teaching

1. **Coordinator**, Institute of Engineer India (IEI), IGIT Sarang Chapter (08.12.2025-Contd.)
2. **Elected Committee Member,** Chemical Engineering Division, IEI, Odisha State Center, Bhubaneswar, 2025-2027
3. **Ph. D Coordinator**, Department of Chemical Engineering, IGIT Sarang (08.07.2025-Contd.)
4. **Council Member,** 4MSI (Mining, Minerals, Metals and Materials Society of India), Bhubaneswar (29.06.2025-Contd.)
5. **Assistant Superintendent, Hostel** Aryabhata Bhawan, IGIT Sarang (13.03.205-Contd.)
6. **Secretary of Teachers Council**, IGIT Sarang (January 2025-Contd.)
7. **Deputy Controller of Autonomy Examination**, IGIT Sarang (August 2023-Contd.)
8. **Doctoral Committee (DSC and DAC)** of PhD students, IGIT Sarang
9. Odisha Joint Entrance Examination **(OJEE) Counseling** for MBBS/BDS for 2023
10. **Anti-ragging Squad** member, IGIT Sarang (17th January 2023-Contd.)
11. **Co-Vice President**, Cultural Association, IGIT Sarang (17th November 2022-Contd.)
12. **BPUT Affiliation Coordinator** of IGIT Sarang (30th June 2023-Contd.)
13. **Board of Studies (BoS) Member** of the Department of Chemical Engineering, IGIT Sarang
14. **Coordinator**, TEQIP-III sponsored National Workshop AChENRI-2k18, IGIT Sarang and Calcutta University, IGIT Sarang, 17th -21st July 2018
15. **EC Member**, Indian Institute of Chemical Engineers (**IIChE**), Bhubaneswar Regional Chapter, 2017-2019 and 2019-2021
16. **Teacher Coordinator**, Indian Institute of Chemical Engineers (**IIChE**) Student Chapter, IGIT Sarang
17. **Teacher Coordinator**, Society of Chemical Engineers (**SOChE**), Dept. of Chemical Engineering, IGIT Sarang, March 2018-Continuing
18. **Assistant Center Superintendent,** Diploma Examination, IGIT Sarang (May 2015-January 2024)
19. **Co-Vice President,** Society of Physical Education and Research (SPER), IGIT Sarang (August 2014-15th February 2019)
20. **Purchase Committee Member,** Institute Central Furniture Committee**,** IGIT Sarang (July 2016-Continuing)
21. BPUT answer sheet **Evaluation Coordinator**, IGIT Sarang (January 2016-2017)
22. **Syllabus Committee Member**, Dept. of Chemical Engineering, IGIT Sarang
23. Departmental **Training & Placement Coordinator** (August 2014-30th November 2024)
24. Departmental **Students Advisor of Curricular Activities** (August 2014- Continuing)

25. Departmental Process **Control Laboratory in Charge** (July 2017-Jan 2025)
26. Departmental **Mechanical Operation Laboratory in Charge** (Jan 2025-Contd.)

Organized Workshop/Seminar/Tech-Festival/ Industrial Lecture Series

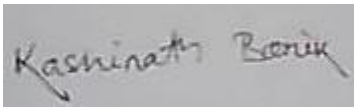
1. Coordinator, National Workshop, Bloom's Taxonomy & Comprehensive Learning Process, 9th-11th April, IGIT Sarang
2. **Organizing committee member** of ODICHEM-2024, 18th – 19th October 2024, jointly organized by IIChE Bhubaneswar Regional Centre and CSIR-IMMT Bhubaneswar.
3. **Organizing committee member** of One Day National Seminar on Challenging Applications of Chemical Engineering (CAChE-2K24), 16th March 2024, jointly organized by IIChE Bhubaneswar Regional Centre and CSIR-IMMT Bhubaneswar.
4. **Technical Committee, Organizing member,** Indian Institute of Metals (IIM)-Annual Technical Meeting (ATM), 22nd -24th November 2023, KIIT Bhubaneswar
5. Coordinator for the MoU signed between IGIT Sarang and CSIR-IMMT Bhubaneswar on date: 18.04.2023
6. **Local Organizing Committee (LOC) Member of CHEMCON-2021**, Dec 27-31, 2021, CSIR-IMMT Bhubaneswar.
7. Organized the Student Seminar, Challenging Application of Chemical Engineering (**CAChE-2K19**) as the **Coordinator** of the Organizing Committee, in association with IIChE Bhubaneswar Regional Chapter at CSIR-IMMT Bhubaneswar, March 30, 2019
8. Organized **QUIMICA-2k19** Technical Festival of Chemical Engineering Department as the **Convener** at IGIT Sarang on 5th-6th April 2019
9. Organized as the Program coordinator, **TEQIP-III sponsored** a 5-day National Workshop on "Application of Chemical Engineering in Natural Resources, Department of Chemical Engineering and University of Calcutta, IGIT Sarang17th July- July 21, 2018
10. Organized two invited talks every year at the Department of Chemical Engineering, IGIT Sarang, by inviting distinguished Professors/Scientists from various organizations like IIT/NIT/CSIR/Foreign University
11. Organized a 3-day Industrial Lecture Series in the Department of Chemical Engineering, IGIT Sarang, from April 16 to April 18, 2018. **Institute Sponsored**.
12. Organizing member of TEQIP-III Sponsored National Workshop, **"RAEMCP-2K18,"** organized by IGIT Sarang Civil Engineering, 24th -September 28, 2018.
13. Organized **QUIMICA-2k17,** the Technical Festival of the Chemical Engineering Department, as the co-convener at IGIT Sarang, 2017
14. Organized **QUIMICA-2k15-**Dive into The Chemical World **as the Co-convener** of the Technical Festival of the Chemical Engineering Department in association with NALCO at IGIT Sarang, 2015
15. Organized **UTSAHAN-2K15,** the Institute's annual Tech Fest, **as the Co-convener** at IGIT Sarang, 2015

Participated in Short Term Course/Workshop/ Conference/ Seminar

1. Participated in more than 10 AICTE/MHRD/TEQIP-sponsored short-term courses
2. Presented papers at more than 10 International/National conferences
3. A good number of national workshops/conferences were held

Achievements/Awards

1. **Institution Prizes-2026**, Odisha State Center, The Institution of Engineers (India).
2. **Dr. Raghupatruni Bhima Rao Award-2025**, Odisha State Center, The Institution of Engineers (India).
3. **Merit Certificate for Oral presentation** at 39th National Convention of Chemical Engineers and National Seminar on R&D activities in Mineral, Chemical, and Metallurgical Industries for today's society at The Institute of Engineers Odisha Center, Bhubaneswar, 9th-10th November 2024.
4. **Mineral Excellence Award 2023** (Academia), IIME Bhubaneswar, Odisha
5. Selected for the **Indian National Academy of Engineers (INAE)** fellowship under the "Mentoring of Engineering Teachers by INAE Fellows-2020".
6. **Best Poster Award** (3rd Prize) by MTech Student **Sumanta Mohanta** in National Conference on Industrial Pollution and Environment, 18th- 19th March 2024, organized by the School of Life Sciences, Sambalpur University, Odisha
7. **Best Oral Presentation Award** (3rd Prize) by MTech Student **Arpita Sahoo** in National Student Seminar, Challenging Application of Chemical Engineering (CAChE-2K19), March 30, 2018, organized by Bhubaneswar Regional Chapter IIChE at CSIR-IMMT Bhubaneswar, Odisha
8. **Best Poster Award** (2nd Prize) in International Conference, Mineral Processing Technology (MPT-2018), 10-12th October 2018, IIT (ISM) Dhanbad, Jharkhand
9. GATE 2009, ***92.97 Percentile*** (434 Gate Score)
10. GATE 2008, ***72.01 Percentile*** (249 Gate Score)
11. Awarded **NCC 'B'** and **'C'** certificates
12. Institute Assistantship **(MHRD fellowship)** to pursue M. Tech, IIT Kharagpur
13. Institute Assistantship **(MHRD fellowship)** to pursue Ph. D, IIT Kanpur



Kashinath Barik