

CURRICULUM VITAE

Dr. Hari Pada Nayek

Professor

Department of Chemistry & Chemical Biology

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Professional Position

Professor: (April, 2026- present): Department of Chemistry & Chemical Biology, IIT(ISM) Dhanbad.

Associate Professor: (2019- April, 2026): Department of Chemistry & Chemical Biology, IIT(ISM) Dhanbad.

Assistant Professor: (2011- 2019): Department of Chemistry & Chemical Biology, IIT(ISM) Dhanbad.

Postdoctoral Research: (2009-2011): Institute of Inorganic Chemistry, Karlsruhe Institute of Technology, Germany.

Supervisor: Prof. Dr. Peter W. Roesky

Postdoctoral Research: (2009): Department of Chemistry, Philipps Universität Marburg, Germany.

Supervisor: Prof. Dr. Stefanie Dehnen

Education

Ph.D. in Chemistry: (2006-2009): Department of Chemistry, Philipps Universität Marburg, Germany.

Thesis Supervisor: Prof. Dr. Stefanie Dehnen

Master of Science: (2004-2006) Department of Chemistry, Indian Institute of Technology Kanpur, India.

Bachelor of Science: (2001-2004) Chemistry (Honors), University of Calcutta, Kolkata, India.

Additional Qualification

1. CSIR-NET-JRF in Chemistry, December, 2006).
2. GATE in Chemistry, 2006

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3. JAM in Chemistry: (2004) Joint Admission Test to Master of Science conducted by Indian Institute of Technology.

Award and Fellowship

1. DAAD fellowship, University of Duisburg-Essen, Germany, 2014
2. Postdoctoral scholarship, Karlsruhe Institute of Technology, Germany, 2009-2011.
3. Doctoral scholarship at University of Marburg, Germany, 2006-2009.

Membership

1. Life member (F/8093), Indian Chemical Society, Kolkata.

Invited talks/Conference/Workshop attended

1. 21st International Conference on Modern Trends in Inorganic Chemistry (MTIC-XXI), December 14-17, 2024, IIT Kharagpur.
2. 7th International Conference on Frontiers in Chemical Sciences (FICS-2024), December 2-4, 2024, IIT Guwahati.
3. 30th International Conference on Organometallic Chemistry, July 14-18, 2024, Agra, India.
4. One-Day International Workshop on CO₂ and Biomass as Feedstock for the Production of Fuels and Chemical Intermediates, 2023, IIT(ISM) Dhanbad
5. International Conference on Recent Trends in Chemical Sciences (RTCS), 16-18th December, 2022, IIT(ISM) Dhanbad.
6. International Conference on Net Zero Emission Technologies (N0ET), 2022, IIT(ISM) Dhanbad
7. 2nd International Conference on CrystalEngineering: From Molecule to Crystal, 2020.
8. New Trends and Future Directions in Catalysis, 2020
9. Delivered a talk in the “Eastern Regional Workshop for Pandiat Madan Mohon Malviya National Mission on Teachers and Training organized by MHRD, IIT Kharagpur, 20th April, 2018.
10. National Conference on Recent Advances in Science and Engineering (RASE), 2016, IIT(ISM) Dhanbad
11. Annual Workshop on Catalysis, 2017, IIT(ISM) Dhanbad
12. Invited talk at 33rd Annual National conference organized by Indian Council of Chemists, 15-17th December, 2014.
13. 150th Anniversary Weltkongress Chemie Karlsruhe, September 2010.

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14. Hemdsärmelkolloquium (HÄKO) March 2009, Philipps-Universität Marburg.
15. Poster presentation in Materialforschungstag Mittelhessen in Universität Marburg in June 2008.
16. Poster presentation in 14. Vortragstagung der Wöhler-Vereinigung für Anorganische Chemie in München in September 2008.

Conference/Workshops/Outreach Activities Conducted

1. A Workshop on Single Crystal X-Ray Diffraction, 26-28th January, 2024.
Role: Coordinator
2. International Conference on Recent Trends in Chemical Sciences (RTCS), 16-18th December, 2022, IIT(ISM) Dhanbad.
Role: Treasurer
3. Refresher Programme in Chemistry, 08-28th June, 2018.
Role: Coordinator
4. Refresher Programme in Chemistry, 01-21st June, 2017.
Role: Coordinator
5. National Conference on Recent Advances in Science and Engineering, 28-29th March, 2016. Role: Organizing Secretary

Institutional Responsibilities

1. Convener, DPGC, 2022-2024
2. Standing IPDF selection committee member, 2023-present
3. Standing DPAC member of the Department, 2021-present
4. Coordinator, Continuing Education Programs (CEP), 2021-present
5. Coordinator, AERB, eLORA (2021-present)
6. JRF Coordinator, Chemistry, 2019-2022
7. Faculty-in-charge, Single Crystal X-ray Diffraction Laboratory, CRF, IIT(ISM), 2017-present.
8. Faculty-in-charge, CHNSO analyser, CRF, IIT(ISM), 2021-present.
9. Member, Equal Opportunity Cell, 2021-present
10. Secretary, Departmental Academic Committee (DAC), 2020-2021

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11. Senate member, 2018-2021.
12. Warden, Emerald hostel, 2018-2020.
13. Chief Warden, 2000 bed boy's hostel, 2020-2022.
14. Time Table in charge, Department of Chemistry, 2016-2021.
15. Deputy coordinator, Faculty Development Centre, IIT(ISM), 2015-2021.

Details of R & D Projects

Details of the project		
1.	Title	Design, Syntheses and Applications of Bifunctional Compounds of Tetravalent Group 14 Elements
	Sanctioning authority	SERB
	Duration	2023-2026
	Amount	29.58 Lakh
	Status	Completed
	Role	Principal Investigator
2.	Title	Organogermanium Supported Polynuclear Metal Complexes as Cooperative Catalysts for Organic Reaction
	Sanctioning authority	CSIR
	Duration	2023-2026
	Amount	9.00 Lakh
	Status	Ongoing
	Role	Principal Investigator
3.	Title	Synthesis and Application of Air-Stable Lewis Acid Catalysts of Main Group Elements
	Sanctioning authority	SERB
	Duration	2019-2022
	Amount	19.62 Lakh
	Status	Completed
	Role	Principal Investigator
4.	Title	Syntheses of Polynuclear Metal Complexes from Metalloligands of Group 14 Elements and Their Catalytic Activities
	Sanctioning authority	SERB
	Duration	2014-2018
	Amount	52.8 Lakh
	Status	Completed
	Role	Principal Investigator
	Title	Synthesis of Triplesalen-Based Metal-organic Frameworks (MOFs) and Investigation on Their Functional Applicability

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5.	Sanctioning authority	SERB
	Duration	2012-2015
	Amount	25.4 Lakhs
	Status	Completed
	Role	Principal Investigator
6.	Title	Synthesis and Catalytic Applications of Lanthanide-based Metal Organic Frameworks (Ln-MOFs)
	Sanctioning authority	IIT-ISM (TEQIP-III)
	Duration	2018-2020
	Amount	2.0 Lakhs
	Status	Completed
	Role	Principal Investigator
7.	Title	Synthesis of Heterometallic Chiral Metal-Organic Frameworks (Cmofs) and Their Applications in Asymmetric Catalysis
	Sanctioning authority	IIT-ISM
	Duration	2013-2016
	Amount	9.7 Lakhs
	Status	Completed
8.	Title	Salen-Based Metal Organic Frameworks of Transition metals and Main group elements and its catalytic applications
	Sanctioning authority	IIT-ISM
	Duration	2011-2013
	Amount	1.0 Lakh
	Status	Completed

Details of Consultancy/Other Projects

Details of the project		
1.	Title	Faculty Development Centre (FDC)
	Sanctioning authority	MHRD
	Duration	2015-2021
	Amount	5.57 Crores
	Status	Completed
	Role	Deputy coordinator

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Research Guidance

Ph. D. Student –awarded

	Name	Year	Title of the Project
1.	Kajal	2026	Homo-and Heteronuclear Coordination Assemblies of Nickel and Lanthanides; Synthesis, Properties and Catalytic Activities
2.	Debayan Basu	2025	Syntheses and Catalytic Applications of Organo-functioned Germanium(IV) and Tin(IV) Compounds
3.	Manish Kumar	2025	Syntheses and Catalytic Applications of Organotin(IV) Compounds
4.	Arijit Sarkar	2021	Homo or heterometallic polynuclear complexes: syntheses, properties and applications
5.	Shankhamala Ghosh	2021	Synthesis And Application Of Carboxylate Ligand-Based Metal Organic Frameworks (Mofs) And Metal Complexes
6.	Richa Vinayak	2020	Synthesis of Metal Complexes from Organometallic Metalloligands and its Catalytic Applications
7.	Souvik Pal	2018	Synthesis and Applications of Inorganic-Organic Hybrid Frameworks based on Polycarboxylate and Organo-Phosphorus Ligands
8.	Mamata Mahato	2018	Metal complexes of Schiff base and dithiocarbamate ligands: Syntheses and applications
9.	Sudeshna Saha	2016	Syntheses of mononuclear, polynuclear metal complexes and boronates of Schiff base ligands

Ph. D. Student –Ongoing

	Present Student	Title of the Project
1.	Sudipta Chakraborty	Bifunctional Catalysts Of Main Group Elements
2.	Pallabi Mondal	Metal-Ligand Cooperatively in Main Group Compounds
3.	Sushree Suman Panda	Main Group Catalysts For Organic Reactions

Post Graduate (M.Sc.) Student–Ongoing

	Present Student	Title of the Project
1.	Tusar Pradhan	Organotin compounds
2.	Samrita Nandi	Lanthanide clusters

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3.	Nandan Patra	Organogermanium compounds
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Post Graduate (M.Sc.) Student –Completed

1.	Name	Year
2.	Senerita Padha	2026
3.	Supriya Dauri	2026
4.	Rajanya Dutta	2026
5.	Subhankar Das	2026
6.	Riddhi Bansal	2025
7.	Shreya Chowdhury	2025
8.	Trisha Putatunda	2025
9.	Saptarshi Bhattacharya	2024
10.	Suman Pradhan	2024
11.	Soubhik Khata	2024
12.	Barshali Ghosh	2023
13.	Priti Roy	2023
14.	Sushanta Gorain	2023
15.	Prithaj Ghosh	2022
16.	Anasuya Maji	2022
17.	Pankaj Pareek	2022
18.	Niva Ghosh	2021
19.	Subhajit Kar	2021
20.	Shiv Shankar	2021
21.	Pinku Prasad Mondal	2020
22.	Souvik Maji	2020
23.	Souvik Debnath	2020
24.	Sourav Jana	2019
25.	Abhishek Sarkar	2019
26.	Kartick Dey	2018
27.	Jyotishka Nath	2018
28.	Asmita Dey	2018
29.	Priyanka Ghar	2017
30.	Sandeep Kumar	2017
31.	Sudip Maiti	2017
32.	Tania Sheikh	2017
33.	Soumyadip Patra	2016
34.	Dipanjan Bhattacharya	2016
35.	Ashok K. Mondal	2016
36.	Prama Bhattacharjee	2016
37.	Manish Kumar	2015
38.	Subhayan Jana	2015
39.	Lipi Midya	2015
40.	Anirban Chakrabarti	2014

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41.	Paromita Karfa	2014
42.	Sanddep Rai	2014
43.	Neetu Balmuchu	2013
44.	Debashish Maji	2013
45.	Arup K. Dey	2013
46.	Sudeshna Saha	2012
47.	Souvik Pal	2012