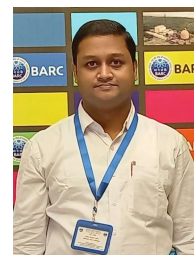


CURRICULUM VITAE

Annexure 1

DR. ASHIS KUMAR JENA

Assistant Professor (II)
P. G. Department of Chemistry
Maharaja Sriram Chandra Bhanja Deo University
(Erstwhile North Orissa University)
(Accrediated with NAAC-A Grade)
Baripada-757 003, Odisha, India
Phone: (+91)9853222919
Email: jenaashis016@gmail.com
asish.jena@odisha.gov.in
Web: <https://sites.google.com/site/drakjena/>
<https://orcid.org/0000-0003-4272-1116>



EDUCATION

Ph.D. (Synthetic Organic Chemistry)	2009-2014
Dept. of Chemistry, National Institute of Technology, Rourkela, India	
M.Sc. (Chemistry) (74 % with I st Division)	2006-2008
Utkal University, Odisha, India	
B.Sc. (Chemistry Hons.) (82 % with I st Division and Distinction)	2003-2006
Utkal University, Odisha, India (First Class First)	
I.Sc. (72 % with I st Division)	2000-2002
CHSE, Odisha	
10th (87 % with 1 st Division)	2000
BSE, Odisha	

TEACHING EXPERIENCE

- **Assistant Professor (Stage II)**, Maharaja Sriram Chandra Bhanja Deo University (Erstwhile North Orissa University), Baripada, Odisha (May 2020 - Continuing)
- **Assistant Professor (Stage I)**, Maharaja Sriram Chandra Bhanja Deo University (Erstwhile North Orissa University), Baripada, Odisha (May 2016 – May 2020)
- **SERB Start-up Fellow** (Funded by SERB, Govt. of India), National Institute of Technology Jamshedpur, Govt. of India (March 2016 – May 2016)
- **Ad-hoc Faculty**, National Institute of Technology Jamshedpur, Govt. of India (Aug 2014 – March 2016)
- **Assistant Professor**, Centurion University of Technology and Management, Odisha (March, 2014 – July, 2014)

CURRICULUM VITAE

RESEARCH EXPERIENCE

Independent Research:

- ✓ MSCB University (Erstwhile North Orissa University), Baripada, Odisha (May 2016 – Continuing till now)
- ✓ National Institute of Technology, Jamshedpur, India, Aug. 2014 to May 2016

Doctoral Research: National Institute of Technology, Rourkela, India
(Research Advisor: Prof. Niranjana Panda)

Thesis Title: “Cu / Fe catalyzed C-C, C-N, C-S Cross-Coupling Reactions: Synthesis of Biologically Important Heterocycles”

Area of Research Interest:

- Development of nanocatalyst based sustainable methodology for cross-coupling and oxidative-coupling reactions
- Synthesis of nitrogen rich heterocycles and evaluation of their anticancer and anti-microbial activity.
- Development of fluorescent carbon quantum dots for sensing applications
- Development of Nano drugs

SPONSORED RESEARCH PROJECT

1. **Title of the Project:** Synthesis of imidazo-fused heterocycles via domino reactions for anti-cancer applications

Name of Sponsoring Agency: Odisha State Higher Education Council

Sanction No. 25EM/CH/50

Duration: Dt. 01.04.2026- Dt. 31.03.2026

2. **Title of the Project:** Organic Synthesis and Material Chemistry for Societal Applications (Co-PI)

Name of Sponsoring Agency: MSCB University (University Funded Intramural Research Project)

Sanction No. 7018/MSCBU-13013/5/2024-Research and Dev Sec-MSCB dated 22.11.2024

Duration: Dt. 26.7.2024- Dt. 25.7.2026

CURRICULUM VITAE

3. Name of Sponsoring Agency: Board of Research in Nuclear Sciences, Govt. of India (PI)

Duration: Dt.06. 1. 2023- Dt. 05. 1. 2026

4. Name of Sponsoring Agency: Board of Research in Nuclear Sciences, Govt. of India (Co-PI)

Duration: 28.09.2022 – 27.09.2025

5. Name of Sponsoring Agency: Department of Science and Technology, Govt. of India (As member)

FIST-Department Project

6. Name of Sponsoring Agency: Science and Engineering Research Board, Department of Science and Technology, Govt. of India (PI)

Duration: Dt.26. 11. 2015- Dt. 25. 11. 2018

BOOK PUBLICATIONS

- 1. Cu/Fe-catalyzed cross-coupling reactions: *Enroute to heterocycles* by Dr. Ashis Kumar Jena**, Lap Lambert Academic Publication, Germany, ISBN No : 978-3-659-61017-2 (Year of Publication: 2014)
- 2. Organic Name Reactions and Rearrangements by Dr. Ashis Kumar Jena**, Narosa Publishing House, India, ISBN No.: 9788184875867 (Year of Publication: 2017) and co-published by Alpha Science International Ltd., Oxford, UK, ISBN: 978-1-78332-303-6. (Year of Publication: 2017)

RESEARCH PUBLICATIONS (h-index = 12, i10 index = 14, total citations = 583)

1. Sanhita Swain, Swagatika Dehury, Indrani Mohanty, Santosh Kumar Sahu, Swagatika Sahu,* **Ashis Kumar Jena,*** Nitrogen-Doped Carbon Dots with antibacterial activity for dual mode Fluorescence and Smartphone-assisted colorimetry detection of Epirubicin, *Analytical Methods*, 2026, 3198 (**Impact Factor-2.7**)
2. Chinmaya Chirasundar Behera, Milan Kumar Dey, and Ashis Kumar Jena* High-Yielding Green Emissive Carbon Dots as Band-Shifted Fluorescence-Enhancing Sensor for Cd(II), *Analysis & Sensing* 2025, 00, e202500105 (**Impact Factor-2.9**)
3. Sanhita Swain, **Ashis Kumar Jena,*** Arakshita Majhi and Swagatika Sahu* Nitrogen-Doped Carbon Dots for Ratiometric Fluorescence/Colorimetry/Smartphone-Based Detection of Daunorubicin, *Chemistry Select*, 2025, 10, e02033 (**Impact Factor-2.0**)
4. Sanhita Swain, and **Ashis Kumar Jena,*** Green synthesis of N,S-doped carbon dots from Giloy stem for fluorimetry detection of 4-nitrophenol, triple-mode detection of congo red and anti-oxidant applications, *ACS Omega*, 2025, 10, 5874 (**Impact Factor-3.7, Citation - 07**)

CURRICULUM VITAE

5. Gayatree Panda, Swagatika Dehury, Himadri Gourav Behuria, Bijesh Kumar Biswal, **Ashis Kumar Jena**, Indrani Mohanty, Sasmita Hotta, Santosh Kumar Padhi, Santosh Kumar Sahu, Gymnema saponin-induced lipid flip-flop identifies rigid membrane phenotype of methicillin resistant *S. aureus* and enhances its antibiotic susceptibility, *Archives of Biochemistry and Biophysics*, 2025, 765, 110303 (**Impact Factor-3.8, Citation - 01**)
6. Dibya Das, Tanmayee Mohanta, and **Ashis Kumar Jena**,* Reusable Cu Nanoparticles Catalysed Synthesis of Aryl Substituted Fluorescent Pyrazines for Iron Sensing and Ink Applications, *Euro. J. Org. Chem.*, 2024, 24, ejoc202400259 (**Impact Factor-2.5, Citation - 03**)

Highlighted in Synfact (2025, 21, 02, 174)

7. Tanmayee Mohanta, Himadri Gaurav Behuria, Santosh Kumar Sahu, **Ashis Kumar Jena**,* and Swagatika Sahu,* Green Synthesis of N,S-Doped Carbon Dots for Tartrazine Detection and Antibacterial Activity, *Analyst*, 2023, 148, 5597-5604 (**Impact Factor – 3.6, Citation - 23**)
 - *Featured as a Cover Page*
8. Sanhita Swain, **Ashis Kumar Jena**,* and Tanmayee Mohanta, Ratiometric Fluorescence/Colorimetry/Smartphone Triple-Mode Real-Time Detection of Doxorubicin by Nitrogen-Doped Carbon Dots, *ACS Appl. Opt. Mater.* 2023, 1, 1236–1244 (**Impact Factor – 3.8, Citation – 19**)
9. Chandan Kumar Pal and **Ashis Kumar Jena**,* Ce-catalyzed Regioselective Synthesis of Substituted Pyrazole from 1,2-Diols via Tandem Oxidation and C-C/C-N Bond Formation, *Org. Biomol. Chem.*, 2023, 21, 59-64 (**Impact Factor-3.2, Citation-13**)
10. Dibya Das, **Ashis Kumar Jena**,* Chandan Kumar Pal, Laurens Bourda, Kristof Van Hecke, CuI Nanoparticles-Catalyzed Regioselective Synthesis of 3-Nitro-2-arylimidazo[1,2-a]pyridines using Oxygen as Oxidant, *Asian J. Org. Chem*, 2022, 11, e2021007- e2021011 (**Impact Factor – 2.8, Citation-10**)
11. Himadri Gourav Behuria, Gandarvakottai Senthil kumar Arumugam, Chandan Kumar Pal, **Ashis Kumar Jena**, and Santosh Kumar Sahu*, Lipid Flip-Flop-Inducing Antimicrobial Phytochemicals from *Gymnemasylvestre* are Bacterial Membrane Permeability Enhancers, *ACS Omega*, 2021, 6, 35667-35678. (**Impact Factor – 3.7, Citation - 10**)
12. Chandan Kumar Pal, **Ashis Kumar Jena**,* Dibya Das, Swagatika Sahu,** Rajesh Kumar Singh, Triethanolamine-Mediated Magnetically Separable Fe₃O₄-Pd Nanoparticles Catalyzed Heck Reaction under Ligand-Free Conditions, *Chemistry Select*, 2021, 6, 7944-7949. (**Impact Factor - 2.2, Citation: 12**)

CURRICULUM VITAE

13. Chandan Kumar Pal, Swagatika Sahu, Ranjan Kumar Sahu, Rajesh Kumar Singh, **Ashis Kumar Jena**,* Magnetically Recyclable Palladium Nanoparticles (Fe₃O₄-Pd) for Oxidative Coupling between Amides with Olefins at Room Temperature, **Appl. Organometallic Chem.**, 2019, 33, e4985 (Impact Factor = 3.89, Citation = 08)

Ashis Kumar Jena* and Swagatika Sahu, Review on Fe-catalyzed carbon-carbon and carbon-heteroatom oxidative coupling reactions: En route to heterocycles. **J. Chem. Pharm. Res.**, 2017, 9(10), 315-341.

14. Niranjana Panda,***Ashis Kumar Jena**, Cu/Fe-catalyzed carbon-carbon and carbon-heteroatom cross-coupling reactions, **Organic Chemistry: Current Research**, 2015, 4, 1-21. (Impact Factor = 0.53, Total Citation = 15)
15. Niranjana Panda,***Ashis Kumar Jena**, Fe-Catalyzed one-pot synthesis of 1,3- and 1,3,5-substituted pyrazoles from hydrazones and vicinal diols, **J. Org. Chem.** 2012, 77, 9401-9406. (Impact Factor = 4.354, Total Citation = 97).
- *Highlighted in SYNFACT, 2013, 9, 28,*
 - *Highlighted in Organic Chemistry Portal, 2013*
16. Niranjana Panda,* **Ashis Kumar Jena**, Sasmita Mohapatra, Heterogeneous magnetic catalyst for S-arylation reactions, **Appl. Catal. A- Gen.** 2012, 433-434, 258-264. (Impact Factor = 5.723, Total Citation = 53)
17. Niranjana Panda,* **Ashis K. Jena**, M. Raghavender, Stereoselective Synthesis of Enamides by Palladium Catalyzed Coupling of Amides with Electron Deficient Olefins, **ACS Catalysis** 2012, 2, 539-543. (Impact Factor = 13.7, Total Citation = 41)
18. Niranjana Panda,***Ashis Kumar Jena**, Sasmita Mohapatra, Ligand-free Fe-Cu Co catalyzed Cross-Coupling of Terminal Alkynes with aryl halides, **Chem. Lett.** 2011, 40, 956-958. (*Paper in celebration for the 2010 Nobel Prize in Chemistry, Also highlighted in Chem. Abstr. 148, 144205, 2008*) (Impact Factor = 1.6, Total Citation = 39)
19. Niranjana Panda,* **Ashis Kumar Jena**, Sasmita Mohapatra, Smruti Ranjan Rout, Copper ferrite nanoparticle mediated N-arylation of heterocycles: A ligand free reaction, **Tetrahedron Lett.** 2011, 52, 1924-1927 (Impact Factor = 2.032, Total Citation = 160).
- *Highlighted in SYNFACT, 2011, 686*
20. N. Panda,* S. Karmakar, **A. K. Jena**, Synthesis and antibacterial activity of some novel pyrazolopyridine derivatives, **Chem. Het. Comp.** 2010, 46, 1500-1508. (Impact Factor = 1.49, Total Citation = 41)
- *Highlighted in ChemInform Abstract, 2011, 42, 39*

AWARDS AND FELLOWSHIPS

Prof. R. C. Tripathy Memorial Award (2024), Orissa Chemical Society

CURRICULUM VITAE

Best Oral Presentation award for oral presentation in the 2nd International Conference on ‘Recent Trends on Prospective Applications of Advanced Materials-2024 (RTPAAM-2024)’ organized by Fakir Mohan University, Balasore, Odisha

Best Oral Presenter award for oral presentation in the International Virtual Conference on ‘Innovation in Chemical Science-2020: An International Meet for Quality and Quantity (ICSIMQQ-2020)’ organized by Vellore Institute of Technology, Chennai

Start-UP Grant (2015), SERB, DST, Govt. of India.

Prof. G. B. Behera Best Thesis award (2014), Orissa Chemical Society.

Institute Post Doc Fellowship (Oct 2013 – Nov. 2013), Indian Institute of Science Education and Research, Bhopal

Prof. R. K. Nanda Award (2011) for best research paper presentation at Silver Jubilee Annual Conference of **Orissa Chemical Society, India.**

Institute Fellowship (Feb. 2009 - Jul. 2013), National Institute of Technology, Rourkela, India

Qualified Graduate Aptitude Test in Engineering (2008), Govt. of India.

Qualified National Eligibility Test in Lectureship (Jun-2008) and (Dec-2008), conducted by Council of Scientific and Industrial Research, Govt. of India.

Post Graduate Merit Scholarship for University Rank Holders (2006-08), Ministry of Human Resource Development, Govt. of India

Ruchi Prativa Sanman (2006), by RuchiPrativa Foundation, Odisha

First Position in Chemistry in B. Sc., Utkal University, Odisha

MANUSCRIPT UNDER PREPARATION

1. Tanmayee Mohanta, **Ashis Kumar Jena,*** Swagatika Sahu, Development of Red Emitting Carbon Dots towards Multi-mode Sensing

RESEARCH GUIDANCE

M.Sc. –52, M.Phil.-07, Ph.D. – 02 (Awarded), 01 (Submitted), 04 (Continuing)

INSTRUMENT EXPERTISE

- ✓ Operation and maintenance of Fourier Transform Infra-Red Spectrophotometer, Flash Chromatography Machine, Microwave Synthesizer, Atomic Absorption Spectrophotometer, Rotary Vacuum Evaporator, High Pressure Reactor, Fluorescence Spectrophotometer, Dynamic Light Scattering, Lyophilizer

CURRICULUM VITAE

CONFERENCE ORGANIZED

- ✓ Organized the National Seminar on Frontiers in Chemical Sciences III (FCS-III, 2026) held on 10th January 2026 as **Joint Secretary**
- ✓ Organized the National Seminar on Frontiers in Chemical Sciences II (FCS-II, 2025) held on 28-29th March 2025 as **Treasurer**
- ✓ Organized OHEPEE-IDP sponsored Program on ‘Academia Industry Interface Meet’, held on 03rd – 4th March 2024 as **Co-Organizing Secretary**
- ✓ Organized OHEPEE-IDP sponsored Faculty Development Program on ‘Advances in Chemistry Teaching’, held on 28 May – 02nd June 2023 as **Co-Coordinator**
- ✓ Organized OHEPEE-IDP sponsored National Seminar ‘Advances in Chemical Sciences’, held on 27th May – 28th May 2023 as **Treasurer**
- ✓ Organized DAE-BRNS Outreach Theme Meeting on ‘Societal Applications of Nuclear Science and Technology’ (SANST-2022) held on 25-27th Mar. 2022 as **Local Secretary**
- ✓ Organized the 35th Annual Conference of Orissa Chemical Society and National Seminar on Frontiers in Chemical Sciences (FCS-2021) held on 18-19th Dec. 2021 as **Joint Secretary**
- ✓ Organized Research Scholar Conclave on 13-14th Dec 2021 as **Member**
- ✓ Organized the UGC sponsored National Conference on “Recent Trends in Chemical Sciences, 2017” as **Organizing Secretary**.

CONFERENCE PARTICIPATION AND ORAL / POSTER PRESENTATION

1. **Ashis Kumar Jena**, Poster Presentation at National Science Day Celebration, organized by Maharaja Sriram Chandra Bhanja Deo University, Baripada, Odisha, held on 28th Feb. 2025
2. Participated in the National Webinar on the occasion of World Environment Day held on 05th Jun 2024, organized by Department of Chemistry, Institute of Technical Education and Research (ITER), SOA University, Odisha
3. **Ashis Kumar Jena***, Oral presentation on the topic ‘Development of Pyrazine based Luminescent Probe for Fe Sensing and Fluorescent Ink Application’ in the 2nd International Conference on ‘Recent Trends on Prospective Applications of Advanced Materials-2024 (RTPAAM-2024)’ held on 19th-20th March, 2024 organized by Fakir Mohan University, Balasore, Odisha.
4. Participated in the 3rd DAE-BRNS Symposium on Current Trends in Analytical Chemistry (CTAC-2023) held on 06th-09th March 2024, organized by Analytical Chemistry Division, Bhabha Atomic Research Centre, Mumbai, India
5. **Ashis Kumar Jena**, Poster Presentation at National Science Day Celebration, organized by Maharaja Sriram Chandra Bhanja Deo University, Baripada, Odisha, held on 28th Feb. 2024
6. Participated in the Intellectual Property Awareness program under National Intellectual Property Awareness Mission (NIPAM) held on 18th Aug. 2023, organized by Intellectual Property Office, India

CURRICULUM VITAE

7. Participated in the Odisha Research Conclave (ORC-2022) programme held from 14th -16th Nov. 2022, organized jointly by Ravenshaw University and OURIIP, Odisha, India
8. Participated in the IPA wareness/Training program under National Intellectual Property Awareness Mission (NIPAM) held on 28th May. 2022, organized by Intellectual Property Office, India
9. **Ashis Kumar Jena**, Development of Imidazo[1,2-*a*]pyridine based Radiopharmaceuticals, Poster Presentation and Participation in the DAE-BRNS Theme Meeting on ‘Strategic Planning for Enhanced Research Reactor Utilization (RRU-2022)’ held on 6-7th May. 2022, organized by Bhabha Atomic Research Center, Mumbai. (**Nominated by Vice-Chancellor, MSCB University**)
10. Participated in the DAE-BRNS Outreach Theme Meeting on ‘Societal Applications of Nuclear Science and Technology’ (SANST-2022) held on 25-27th Mar. 2022, jointly organized by BARC, Mumbai and MSCB University, Baripada.
11. Participated in the one day “Intellectual Property Rights Awareness Program” on 27th Jan. 2022 organized by Department of Chemistry, JECRC University, Rajasthan in Association with NIPAM under Azadi Ka Amrit Mahotsav special initiative program by Govt. of India.
12. Participated in the 1st International conference on “Emerging Porous Materials” on 29th July-30th July 2021, organized by NISER Bhubaneswar and IIT Jammu.
13. Participated in the one day online national webinar on “Implementation of Academic Bank of Credits” on 10th July 2021 organized by GAD-TLC, SGTB Khalsa College, University of Delhi.
14. Participated in the International Webinar-III, 2021 on “PEM Fuel Cells for electric vehicles and Heterogeneous Catalyst design for desulfurization targeting clean environment” on 20th June 2021 organized by The American College, Tamilnadu, India.
15. **Ashis Kumar Jena***, Chandan Kumar Pal, Oral presentation on the topic ‘Fe₃O₄-Pd catalyzed oxidative amidation olefins towards stereoselective synthesis of α -enamides’ in the International (Virtual) Conference on ‘The Present and Future of Excellence in Organic Synthesis’ on 7th -8th Jan-2021, organized by Tezpur University, Assam.
16. Participated in the National virtual conference on “OCS-Industry Interface Meet” from 26th Dec 2020 to 27th Dec 2020 organized by 4MSI, India.
17. Participated in the International virtual conference on “The Physical Chemistry of Molecular Interactions” from 12th Dec 2020 to 13th Dec 2020 organized by G M University, Odisha
18. **Ashis Kumar Jena***, Chandan Kumar Pal, Swagatika Sahu, oral presentation on the topic ‘Fe₃O₄-Pd catalyzed oxidative amidation olefins towards stereoselective synthesis of α -enamides’ in the International Virtual Conference on ‘Innovation in Chemical Science-2020: An International Meet for Quality and Quantity (ICSIMQQ-2020)’ on 21st-22nd Aug-2020, organized by Vellore Institute of Technology, Chennai
19. Participated in the National Webinar on “Synthesis and Properties of Nano Structured Materials” on 24th July 2020 organized by Synergy Institute of Engineering and Technology, Odisha

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20. Chandan Kumar Pal, Swagatika Sahu, Rajesh Kumar Singh and **Ashis Kumar Jena***, Reusable Pd-Catalyzed Oxidative Coupling between Amides with Olefins towards Stereoselective Synthesis of Z-enamides, 33rd Annual Conference of Orissa Chemical Society & National conferences on recent advancement in material sciences, 2019.
21. Chandan Kumar Pal and **Ashis Kumar Jena***, Magnetically Recyclable Nanocat Fe-Ag for Reduction of Nitro arenes to Aryl amines at Room Temperature, 31st Annual Conference of Orissa Chemical Society & national seminar on recent developments and applications of functional materials, 2017.
22. Ashish Kumar Sahoo and **Ashis Kumar Jena***, Synthesis and characterization of ferrite-transition metal core-shell magnetic nanoparticles, Recent Trends in Chemical Sciences, 2017.
23. **Ashis Kumar Jena***, participated in 11th RSC symposium in chemistry, Gauhati University, Assam, 2017
24. **Ashis Kumar Jena***, Niranjana Panda, Pd-catalyzed oxidative coupling between amines with olefins: Stereoselective synthesis of enamides, 20th CRSI national symposium in chemistry, Gauhati University, 2017.
25. **Ashis Kumar Jena**, Niranjana Panda*, Iron catalyzed regioselective synthesis of substituted pyrazoles, 7th CRSI-RSC symposium in chemistry, BHU, Varanasi, India, 2013
26. **Ashis Kumar Jena**, Niranjana Panda* Iron catalyzed regioselective synthesis of substituted pyrazoles, 15th National symposium in chemistry, BHU, Varanasi, India, 2013.
27. Niranjana Panda,***Ashis Kumar Jena**, Magnetic nanocatalyst for cross-coupling reactions, 6th RSI-RSC symposium in chemistry, NIIST, Trivendrum, India, 2011.
28. Niranjana Panda,***Ashis Kumar Jena**, Magnetic nanocatalyst for cross-coupling reactions, 14th National symposium in chemistry, NIIST, Trivendrum, India, 2011.
29. Niranjana Panda,***Ashis Kumar Jena**[#], CuFe₂O₄ nanoparticle catalyzed cross-coupling reactions, Silver jubilee annual conference of Orissa Chemical Society and National Conference on Molecules, Sambalpur University, 2011.
30. N. Panda,* **A. K. Jena**, The α -Acetoxylation of Aryl Heteroaryl Sulfide; A Pummerer Reaction, 23rd Annual Conference of Orissa Chemical Society and National Seminar on Recent Trends in Chemical Science and Technology, NIT Rourkela, India, 2009.

INVITED TALKS

1. Presented Lecture as Resource Person on the topic “Multifaceted Role of Nanochemistry for Achieving Sustainable Development Goals” held on 20th April 2026 organized by Government Women’s College, Baripada
2. **Ashis Kumar Jena***, Award Lecture presentation on the topic ‘Synthesis of Medicinally Relevant Nitrogen Rich Heterocycles via Oxidative C-C/C-N Bond Formation’ in the 38th Annual Conference of Orissa Chemical Society and National Conference on ‘Advancements in Materials Chemistry (AMC-2024)’ held on 28^h-30th Dec, 2024 organized by Odisha University of Technological Research, Bhubaneswar, Odisha

CURRICULUM VITAE

3. Presented Lecture as Resource Person on the topic “Sustainable Synthesis of Nitrogen Rich Heterocycles and Career Opportunity in Chemical Science” held on 27th December 2024 organized by Gopabandhu Science College, Athgarh
4. Presented the Short Invited Lecture on the topic ‘Regioselective Synthesis of Nitrogen Rich Heterocycles via MPCD strategy’ in the National Conference on Emerging Frontiers in Chemical Sciences (NCeFCS-2023) held on 5th Nov – 6th Nov 2023 organized by Berhampur University, Odisha
5. Presented the Invited Lecture on the topic ‘Organic Synthesis and the 3M concept in Mass Spectrometry’ in the Faculty Development Programme on Advances in Chemistry Teaching held on 29th May – 02nd Jun. 2023 organized by MSCB University, Odisha
6. Presented the Invited Lecture on the topic ‘Transition Metal Nanoparticles Catalyzed C-C, C-N Bond Forming Reactions: Stereo- and Regio-Selective Synthesis of Bioactive Scaffolds’ in the Distinguished On-line Lecture Series on Prospects of Nanomaterials held on 15-18th Mar. 2022 organized by KISS University, Odisha
7. Presented the Invited Lecture on the topic ‘Magnetic Nanoparticle Catalyzed Coupling Reactions: A Green Approach’ in the International Virtual Conference held on 29 Feb. 2021 organized by Department of Chemistry, BRM College, Bhubana, Odisha
8. Presented the invited Lecture on the topic ‘Chem Applications: Fats and Oils’ organized by Betnoti College, Betnoti, Odisha held on 29 Nov. 2019
9. Presented the invited Lecture on the topic ‘Fats and Oils’ organized by Govt. Women’s College, Baripada, Odisha held on 30 Nov. 2019
10. Organic Reaction Mechanism. DAV Center for Academic Excellence, Jamshedpur, India, Dt. 10/9/2015 to Dt. 11/9/ 2015
11. Cu / Fe catalyzed C-C, C-N, C-S Cross-Coupling Reactions: Synthesis of Biologically Important Heterocycles. Department of Chemistry, Indian Institute of Technology Kharagpur, India, 2015
12. Cu / Fe catalyzed C-C, C-N, C-S Cross-Coupling Reactions: Synthesis of Biologically Important Heterocycles. U. N. College of Science and Technology, Odisha, 2014.
13. Iron catalyzed regioselective synthesis of substituted pyrazoles, 26th annual conference of Orissa Chemical Society and National Conference on “Chemistry in Technology”, Ravenshaw University, Odisha, 2012.

FACULTY DEVELOPMENT PROGRAMME / ORIENTATION PROGRAMME / REFRESHER COURSE / SHORT-TERM COURSES

1. Participated in the PM-USHA sponsored lecture series on ‘From Roots to Relevance: Integrating Indian Knowledge System (IKS) into Course Curriculum Design and Implementation in Higher Education System’, conducted by HRDC, MSCB University, Odisha from 06th Nov 2025 to 12th Nov 2025.

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2. Successfully completed the Faculty Development Programme on the subject “Understanding India: Indian Ethos and Knowledge Systems”, conducted by HRDC, MSCB University, Odisha from 19th May 2025 to 23rd May 2025.
3. Successfully completed the Refresher Course on the subject “Research Writing and Academic Integrity” conducted by UGC, MMTTC, Kumaun University, Nainital, Uttarkhand, from 18th Feb. 2025 to 04th Mar 2025
4. Successfully completed the Swayam Course on the subject “Metal Mediated Synthesis-I”, conducted by Prof. D. Maity, IIT Bombay from 22nd July 2024 to 16th August. 2024.
5. Successfully completed the Programme on the subject “NEP 2020 Orientation and Sensitization”, conducted by MMTTC, Utkal University, Odisha from 24th Jun 2024 to 6th July. 2024.
6. Successfully completed the Faculty Development Programme on the subject “Research Methodology and Project Writing”, conducted by Rama Devi Women’s University, Odisha from 7th July. 2021 to 11st July 2021.
7. Successfully completed the Faculty Development Programme on the subject “Nanomaterials Characterization Techniques and Result Analysis Methodology: Ideas, Innovations and Initiatives”, conducted by UGC, HRDC, Sabitrivai Phule Pune University from 27th July. 2020 to 31st July 2020.
8. Successfully completed the Refresher Course on the subject “On-Line Refresher Course in Chemistry for Higher Education” in SWAYAM, conducted by UGC, Govt. of India from 01 sep. 2019 to 16. Feb.2020.
9. Successfully completed the Orientation Programme on the topic “Holistic Approach to Effective Teaching” organized by UGC-HRDC, Utkal University from 18 Jan. 2019 to 14 Feb. 2019 (28 days)
10. Participate in Short Term course on “Environmental Monitoring” Organized by Department of Chemistry, NIT Rourkela held on Feb. 22-24, 2013.

WORKSHOP ATTENDED

1. Participated in the workshop on the topic ‘Patent Drafting: An essential skill for Innovators’ on 5th Dec 2025, organized by NIT Rourkela, Odisha
2. Participated in the Workshop on “Hands on Experiences on High End Instruments” from 3-7thJan 2023, organized by Institute of Chemical Technology Indian Oil Campus, Bhubaneswar, India.
3. Participated in the International Lecture Workshop on “Recent Advances in Interdisciplinary Chemical Sciences (RAICS-2022)” on 24-25th May 2022, organized by Mahila Mahavidyalaya, Banaras Hindu University, Varanasi, India.
4. Participated in the workshop on the topic “ICT Tools for Chemistry Teachers” organized by GAD-TLC, SGTB Khalsa College, University of Delhi held on 22nd Feb. 2021.

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5. Participated in the workshop on the topic “Advanced Probes for Materials Structure” organized by UGC-DAE Consortium for Scientific Research, Mumbai Centre and North Orissa University, Baripada held on 2-3 Nov. 2017.
6. Participated in workshop on the topic ‘Best Practices for Academic Excellence and Good Governance’ organized by DAV Center for Academic Excellence, Jamshedpur on Oct. 31, 2015
7. Participated in workshop on “As a young faculty in NIT- Jamshedpur, how do we increase our academic brilliance to an international level and what role each individual can play to increase the World ranking of the NIT” organized by NIT Jamshedpur on Sep. 9, 2015
8. Participate in workshop on the topic “Climate Change” organized by NIT Rourkela held on Mar. 20, 2010.

POPULAR SCIENTIFIC ARTICLE

1. **‘Pachila Falare Hanikaraka Carbide’** published in Odia News Paper Dharitri on Dt. 20.4.2026
2. **“Carbon Dots as Emerging Nano Antibiotics”** published in *Science Horizon*, **2025**, 10, 580-582 by Odisha Bigyan Academy, Govt. of Odisha
3. **“Deuterated Drugs in Health Care: Present Status and Future Prospects”** published in *Science Horizon*, **2025**, 10, 39-41 by Odisha Bigyan Academy, Govt. of Odisha
4. **“Quiz on Noble Prize”** published in *Science Horizon*, **2024**, 9, 45-47 by Odisha Bigyan Academy, Govt. of Odisha
5. **“Scope and Opportunities in Chemical Science”** published in *Science Horizon*, **2022**, 7 (5), 254-256 by Odisha Bigyan Academy, Govt. of Odisha
6. **“Chemistry behind Cholesterol”** published in *Science Horizon*, **2020**, 5 (10), 24-26 by Odisha Bigyan Academy, Govt. of Odisha

REVIEWER

- ✓ Nanoscale Advances, RSC Publication
- ✓ Particle and particle system characterizations, Wiley Publication
- ✓ Chemistry Select, Wiley Publication
- ✓ ACS Applied Optical Materials, ACS Publications
- ✓ ACS Applied Nano Materials, ACS Publications
- ✓ New Journal of Chemistry, RSC Publications
- ✓ RSC Advances, RSC Publications
- ✓ ACS Omega
- ✓ ACS Sustainable Chemistry and Engineering, ACS Publications
- ✓ ChemCatChem
- ✓ Analyst, RSC Publications
- ✓ Analytical Methods, RSC Publications
- ✓ Luminescence

CURRICULUM VITAE

- ✓ Microchemical Journal
- ✓ Particle and Particle Systems Characterizations

PROFESSIONAL MEMBERSHIP

- Affiliate Member, Royal Society of Chemistry, UK (Membership ID: 743042)
- Community Associate Member, American Chemical Society, USA (Membership No. 32220228)
- Life Member, Orissa Chemical Society
- Life Member, Society for Materials Chemistry (Membership No. LM 2272)
- Life Member, Society for Positron Annihilation and Nuclear Probes (Membership No. LM_0064)

ADMINISTRATIVE ASSIGNMENTS

- Member, IQAC/NAAC, MSCB University (From 27.04.2026 onwards)
- Member, Incubation Centre, MSCB University (From 27.04.2026 onwards)
- Member, R & D Cell, MSCB University (From 27.04.2026 onwards)
- Centre Superintendent, B.Sc. Nursing (7th Sem & 5th Sem) Exam-2024
- Centre Superintendent, B.Sc. Nursing (5th Sem & 1st Sem) Exam-2022
- Centre Superintendent, B.Sc. Nursing (6th Sem & 4th Sem) Exam-2024
- Member, Inspection Team for college affiliation
- Member, Student Service Centre, MSCB University (From 01.07.2025 onwards)
- Verifying Officer, PG Admission, MSCB University (2024-25, 2025-26)
- Member, Board of Studies, Fakir Mohan University (From Dt. 31.07.2024 onwards)
- Member, Subject Research Committee, MSCB University (From Dt. 09.3.2023 onwards)
- Core Committee Member, Int. B. Ed.-M. Ed. Admission, MSCB University (2022-23, 2023-24)
- Member, Board of Studies, MSCB University (From Dt.21.03.2022 onwards)
- Member Secretary, Institutional Laboratory Safety Committee(03.11. 2021-Continue)
- Member, Project Monitoring Cell, Institutional Development Plan under OURIP (World Bank Funded) (2019-Continue)
- Deputy Superintendent, Revenue Inspector Exam. (29.08.2021)
- Mentor, Swayam Programme, North Orissa University (Aug 2020-)
- Center Coordinator, Civil Service Coaching Centre, North Orissa University (March 2019 – Jun 2020)
- Deputy Director, IQAC, North Orissa University (June 2017-2018)
- Center Coordinator, NOU Study Center, DDCE, North Orissa University (June 2017-Aug 2020)
- Faculty Advisor for M. Sc. Chemistry, NIT Jamshedpur (Aug. 2015-May 2016)
- Member, Unfair means Committee, NIT Jamshedpur (2015- 2016)