Educate, Empower and Enaincipate

CURRICULUM *Vitae*

सत्यमेव जयते



Dr. PRADIPTA KUMAR BASU

NAME
Dr. PRADIPTA KUMAR BASU

MOBILE NO.
8240720525/ 9433172422 (WHATSAPP)

EMAIL ID
pkbasu74@gmail.com

DESIGNATION
OFFICER IN CHARGE (HOI),
GOVERNMENT GENERAL DEGREE COLLEGE, MANGALKOTE
(RANK: ASSOCIATE PROFESSOR OF CHEMISTRY, WBES)



GOVERNMENT GENERAL DEGREE COLLEGE
MANGALKOTE
Affiliated to the University of Burdwan

ACADEMIC QUALIFICATIONS:

Examination	Board/Council	% of Marks obtained	Name of the Specialized subject	Division/ Class	Year of passing
M.Sc	University of Kalyani	76.00	Organic Chemistry	**1st Class First**	1998
B.Sc (Hons)	University of Kalyani	64.11	Chemistry	**1st Class First**	1996

- **Ph. D. (SYNTHETIC ORGANIC CHEMISTRY), 2003**, University of Kalyani, Kalyani, Nadia, West Bengal, India.

  Supervisor: Dr. K. C. Majumdar, Professor, Department of Organic Chemistry, University of Kalyani.

  Ph. D. thesis title: SYNTHESIS OF HETEROCYCLIC COMPOUNDS

- **POST DOCTORAL RESEARCH (2007-2008)**

Duration	Area of Research	Guide
2007	Total synthesis of (±)-subincanadine F, a bioactive indole alkaloid and palladium-mediated reactions as annulation methodologies suitable for heterocyclic substrates, which are common substructures of natural bioactive compounds.	Dr. M.-Lluïsa Bennasar Félix, Professor of Organic Chemistry, Laboratori de Química Orgánica, Facultat de Farmacia, Universitat de Barcelona, Pl. Pius XII s/n. E-08028-Barcelona, Spain.
2008	Study of the coordination abilities of 2-phenylindole, and ferrocenyl-3,5-diphenylpyrazole derivatives. Activation of σ(C-H) bonds induced by Pd(II) and Pt(II)	(a) Dr. Asensio Gonzalez, Professor of Organic Chemistry, Laboratori de Química Orgánica, Facultat de Farmacia, Universitat de Barcelona, Pl. Pius XII s/n. E-08028-Barcelona, Spain. (b) Dr. Concepción López, Departament de Química Inorgànica, Facultat de Química, Universitat de Barcelona, Martí i Franquès 1-11, E-08028-Barcelona, Spain.

TEACHING EXPERIENCE:

Sl.	Position held	Institution	From (date)	To (date)
1.	Assistant Professor of Chemistry (WBES)	HOOGHLY MOHSIN COLLEGE	01/08/2002	19/12/2012
2.	Assistant Professor of Chemistry (WBES) **[Associate Professor of Chemistry WEF 01/08/2014]**	DURGAPUR GOVERNMENT COLLEGE	20/12/2012	29/07/2016
3.	**Associate Professor of Chemistry (WBES)**	GOVERNMENT GENERAL DEGREE COLLEGE, MANGALKOTE	30/07/2016	04/01/2022
4.	**OFFICER IN CHARGE & DDO (HOI)**	GOVERNMENT GENERAL DEGREE COLLEGE, MANGALKOTE	04/01/2022	TILL DATE

Table 1: List of Research Publications

Sl.	Title	Whether National or International	Corresponding Author (Yes or No)	Name of the Journal	Name of Publisher	Year of Publication	DOI No.	No./Vol./Page	Impact Factor (if any)
1	The Application of CS2 in the Synthesis of New Organic Sulfur Compounds	International	NO	Letters in Organic Chemistry	Bentham Science Publishers	2026	10.2174/0115701786472527260723143727	Vol. X, Pages x-x	1.1
2	Synthesis of Unsymmetrical Diaryl Tellurides Under Mechanical Ball Milling in Room Temperature	International	NO	Current Organic Chemistry	Bentham Science Publishers	2024	10.2174/0113852728291474240123065931	Vol. 28, Pages 319-324	2.5
3	The influence of ancillary ligands on the antitumoral activity of new cyclometallated Pt(II) complexes derived from an ferrocene-pyrazole hybrid	International	NO	Journal of Organometallic Chemistry	Elsevier	2017	10.1016/j.jorganchem.2016.11.031	Vol. 828, Pages 122-132	2.7
4	Evaluation of Antimicrobial Screening and DNA Cleavage Activity in 3,5-disubstituted Pyrazoles and 3,5-disubstituted-4-ferrocenylmethyl Pyrazoles and Their Methylated Derivatives	International	YES	American Journal of Experimental Biology	Columbia International Publishing	2016		Vol. 3, Pages 1-18	
5	Heterodi- (Fe, Pd/Pt) and Heterotrimetallic (Fe2, Pd) Complexes Derived from 4-(Ferrocenylmethyl)-N-(2-methoxyethyl)-3,5-diphenylpyrazole as Potential Antitumoral Agents	International	NO	Eur. J. Inorg. Chem.	Wiley-VCH	2015	10.1002/ejic.201500520	Vol. 2015, No. 22, Pages 3781-3790	2.942

Sl.	Title	Whether National or International	Corresponding Author (Yes or No)	Name of the Journal	Name of Publisher	Year of Publication	DOI No.	No./Vol./Page	Impact Factor (if any)
6	Synthesis, crystal structure and catecholase activity of a Ni(II) complex derived from a tetradentate Schiff base ligand	International	YES	J. Chem. Sci.	Springer/Indian Academy of Sciences	2014	10.1007/s12039-014-0742-5	Vol. 126, No. 6, Pages 1635-1640	1.191
7	Synthesis of α-naphthol and β-naphthol annulated heterocycles: Regioselective heterocyclization of 2-allylnaphthalene-1-ol and 1-allylnaphthalene-2-ol.	International	YES	J. Ind. Chem. Soc.	Indian Chemical Society in collaboration with Elsevier.	2014		Vol. 91, Pages 575-579	0.359
8	Regioselective synthesis of a series of bis-biaryl coupled heterocycles: The superiority of Heck protocol compared to Bu3SnH mediated radical cyclization	International	YES	International Journal of Chemical Studies	AkiNik Publications ISSN: 2321-4902	2013		Vol. 1(4), Pages 121-129	6.85 (RJIF)
9	Stannic Chloride – Iodine Mediated Simple, Convenient 5-exo-trig regioselective Synthesis of Furan–fused Heterocycles	International	YES	International Journal of Chemistry and Research Environment	Peer-reviewed quarterly e-journal ISSN: 2248-9649	2013		Vol. 3, Pages 33-38	0.423
10	N-Iodosuccinimide Annulated Heterocyclization or Environment Friendly Surfactant Based Iodine Promoted Heterocyclization in Aqueous Media of a number of 1-	International	YES	International Journal of Chemistry and Research Environment	Peer-reviewed quarterly e-journal ISSN: 2248-9649	2013		Vol. 3, Pages 40-53	0.423

Sl.	Title	Whether National or International	Corresponding Author (Yes or No)	Name of the Journal	Name of Publisher	Year of Publication	DOI No.	No./Vol./Page	Impact Factor (if any)
	allylhydroxy Naphthalene Precursors: Which One is Superior?								
11	Iodocyclization of diallyl-dihydroxy naphthalenes using N-iodosuccinimide vs molecular iodine in aqueous micelle.	International	YES	Int. J. Org. Chem	Scientific Research Publishing	2013	10.4236/ijoc.2013.33022	Vol. 3, Pages 176-184	0.54
12	Microwave promoted improved regioselective synthesis of 1H,3H,6H[2]benzopyrano[4,3-d]pyrimidine-2,4-diones by radical cyclisation	International	YES	Iranian Journal of Chemistry	Springer	2013	10.1007/s13738-012-0171-7	Vol. 10, Pages 55-62	1.689
13	Platinum(II) and Palladium(II) Complexes derived from 1-Ferrocenylmethyl-3,5-diphenyl pyrazole. Coordination, Cyclometallation or Transannulation ?	International	NO	RSC Advances	Royal Society of Chemistry	2012	10.1039/C1RA01080H	Vol. 2, Pages 1986-2002	2.562
14	Regioselective 5-exo-Trig Heterocyclization of 2-Allyl-1-naphthols under the Influence of N-Iodosuccinimide or Molecular Iodine in Aqueous Micelle	International	YES	Organic Chemistry International	Wiley/Hindawi	2012	10.1155/2012/810476	2012, Article ID 810476, 7 pages	
15	New efficient green methodology for the synthesis of	International	YES	International Journal of Chemistry	Peer-reviewed quarterly e-journal	2012		Vol. 2, Pages 167-172	0.423

Sl.	Title	Whether National or International	Corresponding Author (Yes or No)	Name of the Journal	Name of Publisher	Year of Publication	DOI No.	No./Vol./Page	Impact Factor (if any)
	a series of potentially biologically active pyrazoles under microwave irradiation			and Research Environment	ISSN: 2248-9649				
16	Synthesis, crystal structures and properties of cis- and trans-isomers of [Pt{C6H4-4R1-1-[C8H4N-3/-NOMe]}Cl2(dmso)] (R1 = H or Cl).	International	NO	Journal of Molecular Structure	Elsevier	2011	10.1016/j.molstruc.2011.05.030	Vol. 999, Pages 49-59	1.634
17	Microwave assisted improved regioselective synthesis of 12H-benzopyrano[3,2-c][1]benzopyran-5-ones by radical cyclisation.	International	YES	Organic Chemistry International	Wiley/Hindawi	2011	10.1155/2011/394619	2011, Article ID 394619, 6 pages	
18	1-Methyl-4-ferrocenylmethyl-3,5-diphenylpyrazole: a versatile ligand for Palladium(II) and Platinum(II).	International	NO	Journal of Organometallic Chemistry	Elsevier	2009	10.1016/j.jorganchem.2009.07.006	Vol. 694, Pages: 3633-3642,	2.7
19	Formation of five- and six-membered heterocyclic rings under radical cyclisation conditions.	International	YES	Current Organic Chemistry	Bentham Science Publishers	2009		Vol. 13, Pages 599-645	2.92
20	Formation of five- and six-membered heterocyclic rings under radical cyclization conditions.	International	NO	Tetrahedron	Elsevier	2007	10.1016/j.tet.2006.09.049	Vol. 63, Pages 793-826	

Sl.	Title	Whether National or International	Corresponding Author (Yes or No)	Name of the Journal	Name of Publisher	Year of Publication	DOI No.	No./Vol./Page	Impact Factor (if any)
21	Studies in amine oxide rearrangement: Meisenheimer Rearrangement of m-substituted tertiary amine oxides.	International	YES	Indian Journal of Chemistry	Indian Chemical Society in collaboration with Elsevier.	2006		Vol. 45B, Pages 719-725	0.648
22	Formation of five- and six-membered heterocyclic rings under radical cyclization conditions.	International	NO	Tetrahedron	Elsevier	2005	10.1016/j.tet.2005.07.079	Vol. 61, Pages 10603-10642	3.7
23	Regioselective synthesis of Coumarin and quinolone annulated spiro heterocycles via aryl radical cyclization.	International	NO	Synthetic Commun	Taylor & Francis	2005	10.1081/SCC-200057236	Vol. 35, Pages 1291-1299	1.062
24	Formation of five- and six-membered heterocyclic rings by radical cyclization.	International	NO	Heterocycles	The Japan Institute of Heterocyclic Chemistry	2004		Vol. 63, Pages 1903-1957	1.093
25	Formation of five- and six-membered heterocyclic rings under radical cyclization conditions.	International	NO	Tetrahedron	Elsevier	2004	10.1016/j.tet.2004.05.001	Vol. 60, Pages 6239-6278	3.7
26	Regioselective synthesis of 1H,3H,6H[2]benzopyrano[4,3-d] pyrimidine 2,4-diones and 12H-benzopyrano[3,2-c][1] benzopyran-5-ones by radical cyclization.	International	NO	Tetrahedron	Elsevier	2003	10.1016/S0040-4020(03)00182-0	Vol. 59, Pages 2151-2157	3.7
27	Synthesis of dimedone-annulated heterocycles:	International	NO	Synthetic Commun	Taylor & Francis	2003	10.1081/SCC-120015824	Vol. 33, Pages 679-686	2.0

Sl.	Title	Whether National or International	Corresponding Author (Yes or No)	Name of the Journal	Name of Publisher	Year of Publication	DOI No.	No./Vol./Page	Impact Factor (if any)
	regioselective heterocyclization of 2-(cyclohex-2-enyl)-5,5-dimethyl-3-hydroxy-cyclohex-2-enone.								
28	N-iodosuccinimide — An efficient reagent for regioselective heterocyclization of 3-allyl-4-hydroxy[1]benzopyran-2-ones.	International	NO	Synthetic Commun	Taylor & Francis	2003	10.1081/SCC-120024750	Vol. 33, Pages 3621-3630	2.0
29	N-iodosuccinimide mediated regioselective heterocyclization of o-cyclohex-2-enyl phenols.	International	NO	Synthetic Commun	Taylor & Francis	2002	10.1081/SCC-120015388	Vol. 32, Pages 3719-3724	2.0
30	Formation of five- and six-membered heterocyclic rings by radical cyclization.	International	NO	Heterocycles	The Japan Institute of Heterocyclic Chemistry	2002		Vol. 57, Pages 2413-2439	1.014

	All	Since 2021
Citations	313	37
h-index	10	3
i10-index	10	0

Table 2: List of publications in recognized journal having ISSN No.:

Sl.	Title	Author	Name of the Journal	ISSN No.	Year of Publication	Vol./Page
1	Is it safe to use the artificial sweetener "Aspartame"?	Pradipta K. Basu	Acad. J. Hooghly Mohsin College	0973-6212	2012	Vol. 7, Pages 108-119
2	Paracetamol: A non-opioid analgesic Drug	Pradipta K. Basu	Acad. J. Hooghly Mohsin College	0973-6212	2007	Vol. 2 (1), Pages 5-10
3	Formation of five- and six-membered heterocyclic rings under radical cyclization conditions	Pradipta K. Basu	Acad. J. Hooghly Mohsin College	0973-6212	2006	Vol. 1(1), Pages 12-23

Table 3: List of publications in the Proceedings of National/ International Level Seminar/ Symposium:

Sl.	Title of the Paper	Author	Level	Name of the Seminar/ Symposium / Proceedings	Year	Page No.
1	Development of Antibiotics: first generation to fifth generation and their types, uses and side effects	Pradipta K. Basu	National	Proceedings of UGC sponsored National Seminar on "Some Modern Aspects in Chemical Research-Grooming of UG & PG Students", held on 7th and 8th February 2012 at Bidhannagar College	2012	108-127
2	3-Methoxyimino-2-Phenyl-3H-indoles: Versatile ligands for platinum(II)	Pradipta K. Basu	International	1st SYMPOSIUM ON FUNCTIONAL METAL COMPLEXES THAT BIND TO BIOMOLECULES, Universitat de Barcelona, 9^{th} -10^{th} September, 2013	2013	16

Table 4: List of poster presentations in the Proceedings of State/ National/ International Level Seminar/ Symposium:

Sl.	Title of the Poster	Author	Level	Name of the Seminar/ Symposium	Year	Page No.
1	N-Iodosuccinimide vs surfactant-promoted iodine mediated iodocyclization in aqueous media of a number of di-allylhydroxy naphthalene derivatives.	Pradipta Kumar Basu	International	International Symposium on Molecular Organisation and Complexity: A Chemical Perspective, February 6-8, 2013, Calcutta University	2013	P-54
2	Iodocyclization of a series of 1-allylhydroxy naphthalene precursors under the influence of N-Iodosuccinimide or environment friendly surfactant based iodine in aqueous micelle	Pradipta Kumar Basu	State	20th West Bengal Science and Technology Congress, 2013, BESU, Shibpur, Kolkata (28^{th} February-02^{nd} March, 2013)	2013	P-10
3	The role of N-Iodosuccinimide or Molecular Iodine in aqueous micelle for the regioselective 5-exo-trig heterocyclizaion of 2-allyl-1-naphthols	Pradipta Kumar Basu	National	Acharya Prafulla Chandra Ray Memorial Symposium on Chemistry & Industry, Indian Chemical Society, Kolkata (02-03 August, 2013)	2013	P-61
4	Stannic Chloride-Iodine mediated 5-exo-trig regioselective iodocyclization of several allylhydroxy and bis-allylhydroxy naphthalene precursors	Pradipta Kumar Basu	State	21^{st} West Bengal Science and Technology Congress, 2014 The University of Burdwan, 20^{th} -21^{st} February, 2014,	2014	139
5	Comparative Study between Bu_3SnH annulated radical	Pradipta Kumar Basu	National	National Symposium on Recent Advances in	2014	P-66

Sl.	Title of the Poster	Author	Level	Name of the Seminar/ Symposium	Year	Page No.
	cyclization and Heck protocol for the regioselective synthesis of substituted dihydrobenzo isochromeno [4,3h] chromene derivatives			Chemistry & Industry, Indian Chemical Society, Kolkata (01-02 August, 2014)		
6	Palladium and Platinum containing heterodi- and heterotrimetallic complexes obtained from N-(2-Methoxy ethyl) -4-ferrocenyl methyl 2,5-diphenyl pyrazole	Pradipta Kumar Basu	National	National Symposium on Recent Advances in Chemistry & Industry, Indian Chemical Society, Kolkata 31st July- 1st August, 2015)	2015	P-72
7	Synthesis and Characterization of 1-(2-(2-bromo-1H-indol-3-yl) piperidin-4-one: potential precursor of Subincanadine F alkaloids	Pradipta Kumar Basu	National	RTFMNN, St. Paul's Cathedral Mission College, Kolkata and Industry, Indian Chemical Society, Kolkata (04th – 5th February, 2016)	2016	P-63
8	Synthesis and characterization of various novel platinum (II) and palladium (II) complexes derived from 1-methyl-4-ferrocenyl-methyl -3,5-diphenylpyrazole and 1- ferrocenyl methyl -3,5-diphenylpyrazole	Pradipta Kumar Basu	National	National Symposium on Facets of Chemistry in Biology, St. Xavier's College, Kolkata, 22nd-23rd February, 2016	2016	P-17
9	N-Iodosuccinimide or molecular iodine in aqueous micelle-a good trick for various 5-exo-	Pradipta Kumar Basu	State	23rd West Bengal Science and Technology Congress, 2016, 28th -29th February, 2016.	2016	P 120-121

Sl.	Title of the Poster	Author	Level	Name of the Seminar/ Symposium	Year	Page No.
	trig regioselective iodocyclization					
10	Synthesis and characterization of various potentially biologically active N-substituted 3,5-diphenyl pyrazoles and their ferrocene containing derivatives	Pradipta Kumar Basu	National	Department of Chemistry, Jadavpur University, 16th March, 2016	2016	P-04
11	Synthesis and characterization of various new polyfunctional ferrocene containing derivatives-potential ligands for Palladium (II)	Pradipta Kumar Basu	National	National Symposium on Recent Advances in Chemistry & Industry, Indian Chemical Society, Kolkata (02-03 August, 2016)	2016	P-64
12	Microwave assisted regioselective synthesis of 1H,3H,6H[2] benzopyrano [4,3d] pyrimidine 2,4-diones by radical cyclisation: A new perspective	Pradipta Kumar Basu	National	UGC Sponsored National Symposium 'Enthrilling Facets of Molecular Manifestation in Chemical Sciences, Bidhannagar College, Kolkata, 15th - 16th September, 2016	2016	P-29
13	Synthesis and characterization of various novel cyclometallated Pt(II) complexes derived from an ferrocene-pyrazole hybrid, a potential 'bioactive blocs'	Pradipta Kumar Basu	International	International Symposium on Facets of Chemistry in Biology, (FOCB II), St. Xavier's College, Kolkata, 22nd-12th January, 2017	2017	P-33
14	Regioselective synthesis of various heterocyclic	Pradipta Kumar Basu	National	Emerging Trends in Chemistry (ETC-2017)	2017	P-26

Sl.	Title of the Poster	Author	Level	Name of the Seminar/ Symposium	Year	Page No.
	compounds: Gradual development of new improved methodologies-Conventional to Microwave assisted to Heck strategy			Department of Chemistry, Jadavpur University, 15th February, 2017		
15	A brief overview on Cancer: Detection, Treatment & Awareness	Pradipta Kumar Basu	International	International "Science Seminar" , Burrdwan Raj College and Indian Chemical Society, Kolkata. 10th October, 2017	2017	P 96-97

Table 5: List of manuscripts submitted/ under preparation:

Sl.	Title of the Manuscript	Authors	Status (Submitted/ Under Preparation)	Year
1	New versatile and efficient methodologies for the synthesis of a series of N-substituted 3,5-diphenyl pyrazoles and their ferrocene containing derivatives	Pradipta Kumar Basu, Asensio González, and Concepción López	Under preparation	2026

RESEARCH GUIDANCE:

Guided and supervised one NET-qualified Junior Research Fellow (JRF) in conducting research under a DST-funded Major Research Project as the Principal Investigator, contributing to the development of young research talent in the field of Chemistry.

WHETHER AWARDS (NATIONAL / INTERNATIONAL) RECEIVED:

(a) **BOYSCAST Fellowship**, 2006-07, under Department of Science and Technology, New Delhi, Government of India, for doing post doctoral research for a period of one year, in the University of Barcelona, Barcelona, Spain.

(b) **NET** (National Eligibility Test) 1999, Organized by CSIR and UGC, New Delhi, (Government of India).

(c) **SLET** (State Level Eligibility Test) 1999, Organized by College Service Commission, West Bengal (Accredited by UGC, New Delhi).

(d) **National Merit Scholarship** for being First class 1st in B. Sc (Honours) in Chemistry from Ministry of Human Resource Development, New Delhi, Govt. of India.

(e) **National Merit Scholarship** for being First class 1st in M. Sc in Chemistry from Ministry of Human Resource Development, New Delhi, Govt. of India.

(f) **Speech in National Seminar:** Delivered invited Lecture in UGC sponsored National Seminar held in University of Burdwan (2011).

(g) **Reviewer of International Journals:** (i) *American Chemical Society* (ACS Publications), (ii) *International Journal of Chemistry and Research Environment*, (iii) *Journal of Indian Chemical Society*, (iv) *Bulgarian Chemical Communication*, (v) *Combinatorial Chemistry and high throughput screening* (Bentham Science Publishers).

(h) **Registered Research Guide:** Registered Research Guide under University of Burdwan

MEMBERSHIP OF PROFESSIONAL BODIES:

a) Member of Executive Council (EC), The University of Burdwan

b) Life member of Indian Association for the Cultivation of Sciences, Jadavpur, Kolkata-32.

c) Life member of Indian Chemical Society, Kolkata.

d) Life member of Indian Science Congress, Kolkata.

ACADEMIC & ADMINISTRATIVE ENDEAVOURS

Sl. No.	Name of the Programme / Course	Organizing Institution / Agency	Duration / Date	Achievement / Grade
1	E-Short Term Course on "Earth: Our Home"	Basanti Devi College, IQAC & Department of Chemistry	5th June 2020 – 11th June 2020 (7 Days)	Successfully completed
2	Workshop on NEP 2020	UGC-HRDC, The The University of Burdwan	13th March 2023 (1 Day)	Successfully completed
3	NEP Orientation & Sensitization Programme – 3 **under the** Malaviya Mission Teacher Training Programme (MM-TTP) **of the University Grants Commission (UGC)**	UGC Malavya Mission Teacher Training Programme, The University of Burdwan	16th June 2025 – 25th June 2025 (10 Days)	Successfully completed with Grade A+
4	Orientation Workshop on NIRF Methodology and Parameters	Department of Higher Education, Govt. of West Bengal in collaboration with West Bengal Council of Higher Education & Gushkara Mahavidyalaya	13th January, 2026 (1 Day)	Successfully completed

RESEARCH CAREER:

Major Research Projects

A significant part of my academic career has been devoted to **funded research, independent project leadership and mentoring of young researchers**. I have successfully completed **two externally funded research projects as Principal Investigator**, including a major DST FAST TRACK project and a UGC Minor Research Project.

a) DST FAST TRACK MAJOR RESEARCH PROJECT – PRINCIPAL INVESTIGATOR

A Major Research Project entitled "New polyfunctional ferrocene derivatives with *N*-substituted 3,5-diphenylpyrazolyl unit – potential ligands for palladium(II) and platinum(II)" was sanctioned under the SERC FAST Track Scheme in Chemistry by the Department of Science & Technology (DST), Ministry of Science & Technology, Government of India.

- Sanctioned Amount: ₹17,92,200/-
- Scheme: SERC FAST Track Scheme in Chemistry
- Sanction Order No.: SR/FT/CS-049/2008
- Date of Sanction: 31 July 2009
- Role: Principal Investigator (PI)
- Status: Successfully completed
- Research Manpower: A Junior Research Fellowship (JRF) was sanctioned under the project, and one NET-qualified JRF worked under my guidance on the research programme.

The project involved the development and investigation of **new polyfunctional ferrocene derivatives containing *N*-substituted 3,5-diphenylpyrazolyl units**, with potential applications as ligands for **palladium(II) and platinum(II)** complexes. As Principal Investigator, I was responsible for the **scientific planning, execution, supervision and successful completion of the project**, including research guidance to the JRF.

This project represents a significant achievement in my research career, demonstrating my ability to secure competitive national-level research funding, independently lead a major research programme and mentor a NET-qualified young researcher.

b) UGC MINOR RESEARCH PROJECT – PRINCIPAL INVESTIGATOR

A UGC Minor Research Project entitled "*N*-iodosuccinimide mediated regioselective heterocyclisation of different C-allylated carbocycles and heterocycles and screening of their biological activities" was sanctioned by the University Grants Commission (UGC), New Delhi, Government of India.

- Sanctioned Amount: ₹1,93,000/-
- Funding Agency: University Grants Commission (UGC), New Delhi
- Role: Principal Investigator (PI)
- Status: Successfully completed

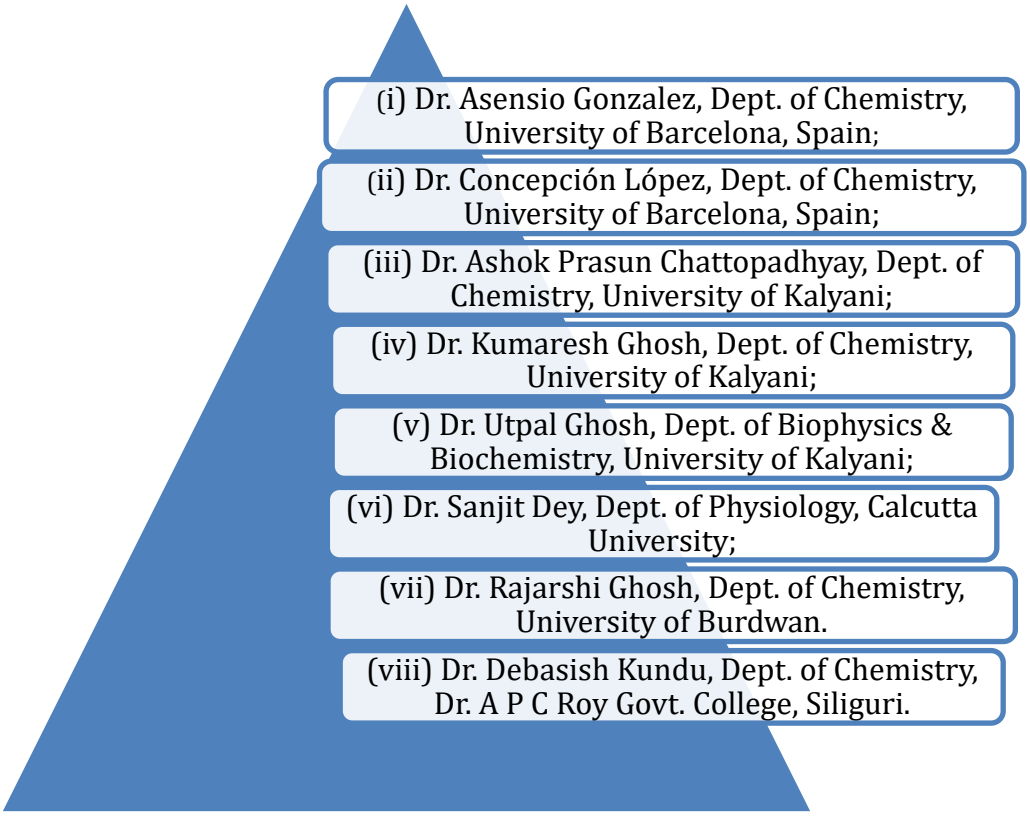
The research focused on N-iodosuccinimide-mediated regioselective heterocyclisation of different C-allylated carbocycles and heterocycles, along with the screening of their biological activities. As Principal Investigator, I independently carried out the research programme and successfully completed the sanctioned project.

The successful completion of this UGC-funded project further reflects my sustained commitment to research, independent scientific investigation and the development of research-oriented academic activities.

RESEARCH ACHIEVEMENT – HIGHLIGHT

Successfully completed two Government of India-funded research projects as Principal Investigator, securing a combined research grant of ₹19,85,200/-, including a prestigious DST SERC FAST TRACK Major Research Project of ₹17,92,200/-. The DST project also supported a NET-qualified JRF who carried out research under my supervision. These achievements demonstrate my capability in competitive research funding, independent research leadership, project execution and mentoring of young researchers.

c) Research Collaboration:



ADMINISTRATIVE CAPACITY:

MAJOR ACHIEVEMENT: LEADERSHIP IN NAAC PREPARATION, INSTITUTIONAL TRANSFORMATION AND NAAC ACCREDITATION:

One of my most significant professional achievements has been **leading the institutional transformation of Government General Degree College, Mangalkote, towards NAAC assessment and accreditation**, despite extremely challenging circumstances arising from its rural location and limited institutional resources.

When I assumed charge as **Officer-in-Charge (HOI) in 2022**, the institution was facing several fundamental challenges. The college had **not yet obtained UGC 12(B) recognition and had not received permanent affiliation from the affiliating University of Burdwan**. The college office was not adequately organised, institutional documentation and records were not systematically maintained, and there was **no properly structured record base corresponding to the seven NAAC criteria**. These difficulties were further compounded by the college's **rural background, poor transportation facilities, severe shortage of funds and inadequate manpower**.

In this challenging situation, I took the responsibility of **building and strengthening the institutional system almost from the ground up**. With sustained commitment, meticulous planning and continuous personal involvement, I worked closely with the office staff, teaching faculty and other stakeholders to organise institutional records, strengthen documentation, develop systematic procedures and create the necessary evidence base for NAAC assessment.

A particularly challenging task was the preparation of the **Institutional Information for Quality Assessment (IIQA) and the Self Study Report (SSR)**. The preparation required extensive collection, verification, classification and systematic presentation of institutional information under the prescribed NAAC criteria. I personally **guided and coordinated the faculty members and office staff**, ensuring that the academic achievements, administrative initiatives, student-support activities, institutional practices and developmental initiatives of the college were properly documented and presented.

The entire process demanded **extraordinary dedication, sustained effort and leadership beyond routine administrative responsibilities**. I worked tirelessly, often beyond normal working hours, personally overseeing documentation, coordination and preparation of the required materials. Transforming an institution with **poorly organised records and limited institutional preparedness into one capable of presenting a comprehensive and credible SSR and IIQA before NAAC** was an exceptionally challenging task.

ULTIMATE ACHIEVEMENT: PRESTIGIOUS NAAC ACCREDITATION B++ GRADE:

The sustained efforts ultimately culminated in a **prestigious NAAC Accreditation with B++ Grade**, which stands as one of the **most significant achievements of my tenure as HOI**. The achievement was particularly noteworthy because it was accomplished from a very challenging starting point and despite the college's **rural setting, poor transportation facilities, limited financial resources and shortage of manpower**.

The achievement was not merely the successful completion of NAAC documentation; it represented a **major institutional transformation**. It involved creating a culture of systematic documentation, quality assurance, accountability, academic planning and continuous improvement within the institution. The successful attainment of **NAAC B++ Accreditation** is therefore a reflection of the collective efforts of the teaching and non-teaching staff under my leadership and my sustained commitment to institutional development.

I consider this journey—from assuming charge in **2022**, when the institution did not have **UGC 12(B) recognition, permanent affiliation and an organised NAAC-oriented documentation system**, to ultimately achieving **NAAC Accreditation with B++ Grade**—to be **one of the biggest and most challenging professional achievements of my career**.

This experience has demonstrated my capacity for visionary academic and administrative leadership, institution building, team mobilisation, quality enhancement, strategic planning and effective management of severe institutional constraints**.** More importantly, it has reinforced my belief tha**t** with sincere leadership, dedication, teamwork and an unwavering commitment to quality, even a rural and resource-constrained higher-education institution can achieve excellence and national-level quality recognition**.**

INSPECTOR FOR SURPRISE VISIT OF B.Ed. COLLEGES

Performed official duty as an Inspector during surprise inspection visits to B.Ed. Colleges in July 2026 & October, 2026, as per the directives of the Hon'ble Director of Public Instruction (DPI), Government of West Bengal. The responsibility involved institutional inspection and assessment as part of the Government-directed monitoring process.

GOVERNMENT NOMINEE FOR CAREER ADVANCEMENT SCHEME (CAS)

Serving as a Government Nominee in CAS Selection/Screening Committees for the assessment and promotion of Assistant Professors and Librarians in Government-aided colleges across West Bengal.

DATE: 22/10/2026

Dr. Pradipta Kumar Basu
Officer in Charge & DDO (HOI)
Government General Degree College, Mangalkote

Dr. Pradipta Kumar Basu
OFFICER IN CHARGE, W.B.E.S.
Government General Degree College, Mangalkote
Dt. Purba Bardhaman, West Bengal- 713132

