

Prof. Dr. Pijus Kanti Khatua

Principal, Bhatter College, Dantan, Paschim Medinipur, West Bengal, India. Email: principal@bhattercollege.ac.in









TEACHING EXPERIENCE

SL.	Position held	Institution	From(date)	To(date)
1.	Lecturer	Haldia Institute of Technology	09.08.2010	31.08.2010
2.	Assistant Professor	Haldia Institute of Technology	01.09.2010	03.03.2016
3.	Associate Professor	Haldia Institute of Technology	04.03.2016	31.03.2019
4.	Professor	Haldia Institute of Technology	01.04.2019	10.05.2023
5.	Principal	Bhatter College, Dantan	11.05.2023	Till date

PUBLICATIONS BOOKS/ BOOK CHAPTERS

SL. No.	Title	Soul Authorship/edited	Publishers	Year	ISSN/ISBN
1.	Practical Book on Engineering Chemistry Page: 137	Textbook Author Main Author 2016	Platinum Publishers, Kolkata. International	2016	ISBN: 978-81-89874- 43-8
2.	Eco-friendly formaldehyde-free wood adhesive for interior plywood manufacturing Page 5	NSAFMTSI-2015 Corresponding Author	NSAFMTSI-2015,	2015	ISBN: 978-93-5196- 458-2, 58-63
3.	Utilization of bio-based phenol-animal glue formaldehyde resin adhesive for the manufacture exterior-grade plywood Page 9	esin adhesive for the Main Author		2015	ISBN: 978-93-5196- 458-2, 49-57,
4.	Cognition, Risk, and Ethics of Nanoscience and Nanotechnology Page 5	NSNN-2015, Fourth author		2015	ISBN: 978-93-5254- 967-2, 87- 91
5.	Jute-bamboo composites as an alternative building material for seismic and cyclone prone zone (coastal)	Environment Friendly Biodegradable Polymers: Present and Future	Mallick Book Center Publishers	2016	ISBN, 978-81- 926694-0-3, Page 178-189

	Page: 18	Editors: Dr. Bidhan Chandra Samanta, Dr. Tithi Maity Book chapter March 2016 Main Author			
6.	Fire retardant properties of plywood incorporating silicate, phosphate and boron compounds as additives in PF resin Page 11	NSAFMTSI-2015 Main Author	NSAFMTSI-2015,	2015	ISBN: 978-93-5196- 458-2, 52-562,
6.	Bioplastic: the Green Technology; and concern on biodegradability Page 23	Environment-Friendly Biodegradable Polymers: Present and Future Editors: Dr. Bidhan Chandra Samanta, Dr. Tithi Maity Book chapter March 2016 Second Author	Mallick Book Center Publishers	2016	ISBN, 978-81- 926694-0-3, Page 200-222
7.	Development and studies of adhesive properties of formalin-free maize Gluten-based adhesives with different copolymers for the development of jute composite Page 21	Green Engineering and Sustainable Development: Editors: Dr. Bidhan Chandra Book chapter Main Author March 2016	Narosa Publishing House, Page: 4.1-4.20	2016	ISBN 978-81-8487- 715-1,

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8.	Imidazolium Ag-NHC Complexes as Antimicrobials and Antifungals – a mini review.	RDBAM-2016, Co-Author		2016	ISBN: 978-93-5267- 195-3, 49 55-57
9.	An introduction to composite material Page 16	Book chapter December 2020 Corresponding Author	Edu. Chem. Sci. Tech.,	2020	ISBN: 978-81- 954339-0-2, 67-68 Vol. 7-8, Page 31-46
10.	Bioactive material; A bridge to solve fascinating problems of science by recent quantum phenomenon	Book chapter Co-Author			ISBN: 978-93-5267- 195-3, 118-125
11.	Current status o organic solar cell Fundamentals- materials, fabrication Techniques and photovoltaic performances: An overview	Book chapter 2015 Co-Author	2015	2015	NSAFMTSI-2015 ISBN: 978-93-5196- 458-2, 67-68 Page 87- 91
12.	Utilization of bio-based Phenol-animal glue-formaldehyde resin adhesive for manufacturing exterior grade wood particle board	RDGC2015 Book chapter 2015 Main Author	Recent development in green chemistry- 2015	2015	ISBN: 978-93-5235- 543-3, 67-68 Page 115- 121

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13.	Preparation of exterior grade corrugated sheet from bio-active silane graft bamboo mat and polyester resin	RDBAM-2016, Main Author	2016	ISBN: 978-93-5267- 195-3, 49 55-57
14.	Enhancement of Fire retardant properties of plywood by incorporating nano additives (silicates, phosphate, and boron) compounds as in MUF Resin	NSNN-2015, Corresponding Author	2015	ISBN: 978-93-5254- 967-2, 97- 112-16
15.	Development of eco-composite board from jute and nano-based Polyester-Euphorbia Latex	Proceedings of NSNN-2015, Corresponding Author	2015	ISBN: 978-93-5254- 967-2, 67- 71
16.	Development of bio-based and exterior grade phenol-animal glue formaldehyde.	NSAFMTSI-2015 Main Author	2015	NSAFMTSI-2015, ISBN: 978-93-5196- 458-2, 59-62,

RESEARCH ARTICLES

SI. No.	Title	National/ International	Correspondi ng Author (Yes/No)	Journal, Vol. with page number, Year	Year	Publisher	Whether peer-reviewed and/or UGC listed, Impact Factor Citation(s)
1.	Effect of Solvent on the Spectroscopic Behavior of the Dye Safranine T	International	Main author	J. Oleo Sci.52, 7, 2003, 387- 391	2003	ISSN:1347 3352	peer review I.F.: 1.601 Citation: 6
2.	Characterisation of binary surfactant mixtures (Cetylepyridinium Chloride and Tween 60) in an aqueous medium.	International	Main author	J. Dispersion Sci. Tech. 25, 6, 2004, 741-748	2004	ISSN:1532 2351	peer review I.F.: 2.02 Citation: 41
3.	Triplet State Interaction of Safranine T with Inorganic Cations in Different Solvents	International	Main author	J. Mol. Structure, 757, 2005, 43-48.	2005	ISSN:222 860	peer review I.F.: 3.196 Citation: 2

4	Aggregation of Nonionic Surfactant Igepal in aqueous Medium: Fluorescence and Light Scattering Studies"	International	Co-author	Int. J. Mol. Sci. 4, 2003, 562- 571	2003	ISSN:1422 0067	peer review I.F.: 5.542 Citation: 43
5.	Characterization of polyoxyethylene nonyl phenol (Igepal) and its complexation with 3, 7- diamino - 2, 8 – dimethyl – 5 - phenyl phenazinium chloride	International	Co-author	. J. Colloid Interface Sci. 275, 2004, 623-631	2004	ISSN:0021 9797	peer review I.F.: 8.128 Citation: 23
6.	Physicochemical characteristics of reverse micelle of Igepal in different organic solvents	International	Co-author	J. Colloid Interface Sci. 279, 2, 2004, 523-532	2004	ISSN:0021 9797	Peer reviewed I.F.: 8.128 Citation: 36
7.	Partitioning of Quencher Ions in the Micellar Microenvironment of Polyoxyethylene Nonyl Phenol	International	Co-author	Spectrochemic a Acta A. 61, 2005, 395-401	2005	ISSN:1386 1425	Peer reviewed I.F.: 4.098 Citation: 12
8.	Quenching of fluorescence of safranine t by halides and pseudohalides in mixed micellar media	International	Main author	. J. Mol. Liq. 124,1-3, 2005,45-50	2005	ISSN:0167 7322	Peer reviewed I.F.: 6.165 Citation: 10
9.	Effect of solvent on the	International	Main author	. J.	2006	ISSN:0022 2313	Peer reviewed

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	quenching of fluorescence of safranine T in binary solvent mixtures"			Luminescence Volume 121, 2, 2006, 488-496.			I.F.: 3.599 Citation: 9
10.	Jute Composite Using Euphorbia Latex-A Natural binder	International	Co-author	Textile Asia (HongKong) XXXVIX-0203, 2008, Pages 55-57	2006	ISSN:1532 2351	Peer reviewed I.F.: 0.104 Citation: 2
11.	Utilization of Non-oven Jute felt - A natural Fiber as a Substitution of Wood Veneer for Manufacture of Plywood"	International	Co-author	International Journal of Recent Technology and Engineering Volume-1, Issue-1, April 2012, Pages 15-21	2008	ISSN: 2277-3878,	Peer reviewed I.F.: 1.27 Citation: 2
12.	Modified flush door shutter using jute composite - A natural substitute of wood	International	Main and corresponding author	International Journal of Soft Computing and Engineering (IJSCE), Volume-1, Pages 9-14, July 2011,	2011	ISSN: 2231-2307	Peer reviewed I.F.: 0.675 Citation: 4

13.	Eco-composite flush door shutter using bamboo-jute fiber	International	Main and correspondi ng author	International Journal of Innovative Technology and Exploring Engineering Volume-2, Issue-4, March 2013	2013	ISSN: 2278-3075,	Peer reviewed I.F.: 0.546 Citation: 6
14.	Prospect of virtual reality in teacher education	International	Correspondi ng author	The light of education	2013	ISSN: 2277-4556, Issue-2,14-19, 2014	NA
15.	Compatibility of nanobiocide as wood preservative with thermosetting resin used as adhesive for plywood manufacturing"	International	Correspondi ng author	International Journal of Composite Materials & Matrices Vol. 1: Issue 1; 1-6, 2015	2015	ISSN: 2582-435X	peer review I.F.: NA Citation:
16.	Green adhesive - Using glyoxalated lignin and Hydrogenated rosin as ecologically safe wood adhesive for interior plywood"	International	Correspondi ng author	International Journal of Polymer Science & Engineering, Vol. 1: Issue 1;	2015	ISSN: 2455-8745,	peer review I.F.: NA Citation: 1

				23-27 2015			
17.	Substitution of wood by polymer composites with jute fiber-A case study	International	Correspondi ng author	International Journal of Polymer Science & Engineering Vol. 1: Issue 1; 1-7, 2015		ISSN: 2455-8745,	peer review I.F.: NA Citation:
18.	Environment-friendly, exterior-grade resin adhesive from phenol-animal glue- formaldehyde (PGF)	International	Correspondi ng author	International Journal of Polymer Science & Engineering Vol. 1: Issue 1; 16-22, 2015	2015	ISSN: 2455-8745,	peer review I I.F.: NA Citation:1
19.	Manufacturing of BWP grade plywood from resin adhesive using animal protein (glue) by partial replacement of phenol"	International	Main and correspondi ng author	International Journal of Polymer Science & Engineering Vol. 1: Issue 1; 28-35, 2015	2015	ISSN: 2455-8745,	peer review I.F.: NA Citation:
20.	Enhancement of fire retardancy properties of Plywood by incorporating Silicate, Phosphate, and Boron	International	Correspondi ng author	International Journal of Composite Materials & Matrices Vol. 1:	2015	ISSN: 2582-435X	peer review I.F.: NA Citation: 1

	compounds as additives in PMUF Resin			Issue 1; 11-15, 2015			
21.	Evaluation of mechanical properties of plywood treated with a new wood preservative (CEB) chemical. Aparna Kalawate, Shadhu Charan Shahoo and Pijus Kanti Khatua*, Himadri Sekhar Das,	International	Correspondi ng author	Journal of The Institution of Engineers (India): Series D (Springer) DOI:10.1007/s4 0033-015-0108-2.	2015	ISSN: 2250-2122	peer review I.F.: 1.42 Citation: 2
22.	Development of self-fire retardant MGF (melamine-animal glue formaldehyde) resin for the manufacture of BWR plyboard	International	Main and correspondi ng author	Journal of The Institution of Engineers (India): Series D Springer DOI 10.1007/s4003 3-016-0120-1 May 2016,	2016	ISSN 2250-2122,	peer review I.F.: 1.42 Citation:2
23.	Approach of Organocatalysis Techniques towards "Green Chemistry"	International	Co-author	International Journal of Innovative Practice and Applied Research (IJIPAR) 2016, 131-142	2016	ISSN-2349- 8978,	peer review I.F.: NA Citation:2

24.	Effects of surface treatments of glass fiber on the mechanical properties of composites made from epoxy resin reinforced with wooden veneer-glass hybrid	International	Correspondi ng author	J. Indian Chem. Soc., Vol. 94, April 2017, pp. 1-7	2017	ISSN-0019- 4522	peer review I.F.: 0.45 Citation:
25.	JUTE-REINFORCED BIO- COMPOSITE USING EUPHORBIA LATEX AS ADHESIVE	International	Main and correspondi ng author	International Journal of HIT Transaction Vol.2: Issue 2A (2016) Page 85-89	2016	ISSN: 0973-6875	Peer review I.F.: NA Citation:2
26.	Status of Open and Distance Mode of Teacher Education in India	International	Co-author	International multidisciplinar y e journal Vol- 6, Issue-8, Aug-2017, 1-9	2017	ISSN: 2277-4262,	peer review I.F.: 0.451 Citation: 6
27.	Jute Fiber Graft Copolymers Euphorbia Latex Composites: Physico-Mechanical Studies	International	Main and correspondi ng author	International Journal of HIT Transaction Issue 1A (2017) Page 110-121.	2017	ISSN: 0973-6875, Vol.3:	peer review I.F.: NA Citation:1
28.	A Comparative Study on Women Participation in Indian Parliamentary Election: Voter and Contestant,	International	Co-author	International Journal of HIT Transaction Vol.3: Issue 1A	2017	ISSN: 0973-6875,	peer review I.F.: NA Citation:

				(2017) Page 122-127.			
29.	Analysis of CMC of polyoxyethylene(20) sorbitan monopalmitate (Tween-40) and cetyltrimethylammoniumbro mide (CTAB) in aqueous medium,	International	Main and correspondi ng author	J. Indian Chem. Soc., Vol. 95, Jaqnuary 2018, pp. 1-9	2018	ISSN-0019- 4522	peer review I.F.: 0.45 Citation:
30	Applicatuion of fuzzy inference techniques in the production of eco-friendly aminoplast based modified resins for plywood panel industries	International	Co-author	International Journal of Fuzzy Computation and Modelling, 2018,	2018	ISSN online: 2052-3548 ISSN print: 2052- 353X	peer review I.F.: NA Citation:2
31.	An overview of interaction of solvents with different dyes through photophysical studies	International	Main and correspondi ng author	International Journal of Research In Science & Engineering, CHEMCON Special Issue: March 2018,PP[47-57] e-	2018	ISSN: 2394-8299, p-ISSN: 2394- 8280	peer review I.F.: 4.2 Citation: 6

32.	Effect of Biofertilizer on Garlic (Allium sativum) cultivation	International	Co-author	International Journal of HIT Transaction Vol.4: Issue 2A (2018) Page 1- 14.	2018	ISSN: 0973-6875,	peer review I.F.: NA Citation:
33.	Photophysical studies of the dye 1-Anilinonapthalene-8- sulfonic acid in different solvents and its quantum chemical investigation	International	Correspondi ng author	Journal of Molecular Structure1179 (2019) 462-468	2019	ISSN:222 860	peer review I.F.: 3.196 Citation: 1
34.	Development of fire retardant eco-composite board from jute and bio-based Euphorbia latex polyvinyl alcohol (PVA) copolymer for structural purpose.	International	Correspondi ng author	J. Indian Chem. Soc. Vol. 97, No. 12a, December 2020, pp. 2679-2688	2020	ISSN-0019- 4522	peer review I.F.: 0.45 Citation:
35.	An Expedient Approach Towards Statistical Analysis of Formalin Business Policy Using Design of Experiment in a Petro-complex Plant in India	International	Co-author	Research square, https://doi.org/10.21203/rs.3.rs-901581/v1		ISSN-2693- 5015	peer review I.F.: 0.45 Citation:

36.	History of teacher education in India and a bang of ODM	Inter national	Main and correspondi ng author	The Light of Education: A biannual referred journal of education	2014	ISSN-2277- 4556, Vol. 3, Issue 1&2 March September 2014	peer review I.F.: NA Citation:
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RESEARCH GUIDANCE

	SI. No.	Number Enrolled	Thesis Submitted	Degree awarded	
Ph.D	Supervisor (Sole)	T. B. Sinha	Univ. of Mysore	Awarded (01.11.19)	
	Supervisor (Joint)	D. Singh	Raigang Univ.	(Coursework exam completed)	

WHETHER AWARDS (NATIONAL / INTERNATIONAL)

- A) "Eco-composite flush door shutter using bamboo-jute fiber", In NSAFMTSI-2015
- B) "Modified flush door shutter using jute composite –A natural substitute of wood" In NSAFMTSI-2015
- C) Best Scientist award from Smile –Tamluk, Purba Medinipur

NO. OF PATENTS (FILED / HELD)

SI. No.	Patent particulars	Approving Authority with date	Period of Validity/ Status	Type of Patent, Broad Area/ Field	National/ Internation al
1.	An additive for thermosetting resin (Published)	Indian Patent Application No.201731000779 On 08.02.2016 Published on 08.12.2017	Published		National
2.	Modified chimney to arrest CO ₂ gas and carbon soot (Published)	Indian Patent Application No.201731016214 of 08. 05. 2017 Published on 14.12.2018	Published and Under Final reviewing	Chemical	National
3.	A sulphur base fertilizer for plant (Published)	Indian Patent Application No. 201931006007 of 15.02.2019 Published on 21.08.2020	Published	Chemical	National
4.	An additive composition for use as a viscosity booster and filler for the	Indian Patent Application No. 202131019455 of 28	Published	Chemical	National

	thermosetting resin (Published)	.04. 2021			
		Published on			
		14.11.2022			
5	A composite toilet door and a process for the manufacture thereof	No. 202331043730	Published	Chemical	National
6	A neck Guard for protection from animal	No. 202331043734	Awaiting for publi cation	Mechanical	National

MEMBERSHIP OF PROFESSIONAL BODIES

Life member: Indian Association for the Cultivation of Science; World Science congress; Paschim Banga Bigyan Mancha; Indian Photobiology Society

RESEARCH PROJECTS COMPLETED

SI. No	Title of the project with Reference No.	Grant(s)/ Amount sanctioned in Rs. (Lakhs)	Agency (Funding, Commission ing and/or Collaborati ng)	Period	Grant(s)/ Amount Rs. (Lakhs)	Principal Investigator/ Co- investigator	Joint Project (Yes/ No)	Output/ Impact book/ paper/ film/ technology /Web-facility/
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Progr ai	m/P	roces	
etc.			

1.	Development of low-cost BWP and BWR grade resin for plywood with 19loss phenol – A partial substitution of	Rs. 8,10,000/-	M/s Agarwal Chemicals, 40 , strand Road, 4 th floor, Kolkata1	1(One) Yr. Date: 18.07.2016	Rs. 8,10,000/-	Principal Investigator	No	Technology transfer to Agarwal chemical
2.	phenol and urea, (Completed) Development of transparent and glossy polymer coating on medium density agro waste Particle board (Ongoing)	Rs. 17,34,000/-	Maa Sarada Decorative Particle Board Industries, Lakhsmanpur Hawrah	3(three) Yrs. Date: 09.03.2020	Rs. 17,34,000/-	Principal Investigator	No	Technology transfer to Maa Sarada Decorative Particle Board Industries

RESEARCH PROJECTS ON- GOING

SI. No.	Title of the Project with Reference No.	Grant(s)/ Amount sanctioned in Rs. (Lakhs)	Agency (Funding, Commissioning and/or Collaborating)	Period	Grant(s)/ Amount mobilized in Rs. (Lakhs)	Principal Investigator/ Co- investigator	Output/Impact, i.e. book/paper/ film/technology /Web-facility/ Program/Process etc.
1.	Low cost Composite Toilet Door Using renewable fast- growing cellulose material Jute and bamboo with thermosetting resin	Rs. 15,00,000/-	MSME innovation scheme	2(two) Yrs. Date: 22.06.2022	Rs. 15,00,000/-	Principal Investigator	Laboratory scale product has been developed and the patent has been filed
2.	Development of Modified chimneyto	Rs. 15,00,000/-	MSME innovation scheme	2(two) Yrs. Date:	Rs. 15,00,000/-	Principal Investigator	Laboratory scale product has been developed and

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arrest Carbon	26.06.2022		patent has been
dioxide gas and carbon soot			filed
from different industrial			
chimney			

CONSULTANCY

SI. No.	Title of the Project with Reference No.	Agency (Govt./Public/ Private etc.)	Period/ Status	Amount generated (in Rs.)	Consultant/ Quality evaluator	Output/ Impact
1.	Development of Roller ink for making on plywood and block board. Ref. Nil Date: 16.07.2016(Completed)	Ranjan Engg. Pvt. Ltd Kolkata-45.	3(three) months	Rs. 50000/-	T. K. Gangopadhay	Successful
2.	Development of glossy type finishes on surface with glass fibre and jute fibre on the fibreboard to make composite doors. Ref. Nil Date: 20.08.2016 (Completed)	Tufwud Doors and Accessories. Kolkata.	2(two) months	Rs. 50000/-	M. P. Khemka	Successful

3.	Development of fire retardant and medium density jute-bamboo composite board for Indian rail way. Ref. Excel/H.I.T./16-17	Excell Composite Pvt. Ltd.	1(one) Yr.	Rs. 100000/- Date:14.02.2017(Completed)	Jit Gupta	Successful
4.	Development of exterior grade fire retardant Paints for Metal coating. Date:05.08.2017 Ref. Nil (Completed)	Wasser Polymer Pvt. Ltd.	1(one) Yr.	Rs. 2000000/-	A. Chakraborty	Successful
5.	Development of low-cost Boiling water resistance (BWR) melamine urea formaldehyde (MUF) resinusing lignin powder as a substitute of phenol for ply board, Ref. Nil Date: 07.10.2018 (Completed)	M/s Agarwal Chemicals, 40 , strand Road, 4 th floor, Kolkata1	2(Two) Yr.	Rs 15,00,000	P. Jalan	Successful
6.	Development of low commercial resin(Urea Formaldehyde) Ifor ply board. B) Development of low cost Boiling water resistance(BWR) melamine urea foremaldehyde(MUF) for ply board Date: Ref. Nil	Kalyani Chemicals, Vill. Kapileswar Digha, Borogaguli, Nadia	2(Two) Yr.	Rs. 10,00,000/-	P. Daw	Successful

	Date:25.05.2019(Completed)					
7.	Development of prelam particle board from medium density Agro waste Particle, Date: 07.04.2019(Completed)	Maa Sarada Decorative Particle Board Industries, Lakhsmanpur Hawrah	2(Two) Yr.	Rs. 12,24,000/-	D. Manna	Successful
8.	Development of viscosity of UF resin to prevent penetration in particle during gluing	Maa Sarada Decorative Particle Board Industries, Lakhsmanpur Hawrah	Instant	Rs. 95,000/-	P. Manna	Successful
9.	Development of additive booster for thermosetting resin adhesive. Date: 04.05.2022(Ongoing)	M/s Agarwal Chemicals, 40, Strand Road, 4 th floor, Kolkata1	2(Two) Yr.	Rs. 18,50,000/-	Aditya Jalan	Ongoing
10.	Modification of Industrial Chiemney (both internal and external combustion) to arrest carbon dioxide gas and carbon soot. Date: 06.06.2022(Ongoing)	R. H. Enterprises, Wellesly House, 2 nd floor, 7, Red Cross place, Kol-1	2(Two) Yr.	Rs. 13,75,000/-	Afsar Ahaed	Ongoing

INVITED LECTURES / RESOURCE PERSON/ PAPER PRESENTATION IN SEMINARS/ CONFERENCES/FULL PAPER IN CONFERENCE PROCEEDINGS (PAPER PRESENTED IN SEMINARS/CONFERENCES AND ALSO PUBLISHED AS FULL PAPER IN CONFERENCE PROCEEDINGS WILL BE COUNTED ONLY ONCE)

SI. No.	Title of Lecture delivered / Paper presented /Paper published in conference proceedings	Title of Conference / Seminar etc. Date	Organized by	International (abroad/withi n Country)/Nati onal/State/Un iversity level
1.	Photo physical behavior of ST in different micelles media	NCMP: Resource application and conservation in India. date: 11-12, February, 2005	J. U. Kolkata	National Conference
2.	Utilization of Bamboo based composite material to save our forest reserve	National Conference on molecules to materials, date: 16-17, March, 2011	Haldia Govt. College	National Conference
3.	Modified flush door shutter using jute composite- A natural substitute of wood	NCRAMT-2011 date: 24-26, June, 2011	HIT, Haldia	National Conference
4.	Prospect of virtual reality in teacher education	Quality initiative in teacher education with reference to secondary education. date: 5th April, 2014	IEH, Sutahata, Amlat	National Seminar

5.	Spectroscopic behavior of dye ST in different halide and pseudo-halide environment	ISASUD-2014 date: 12-14, December, 2014	IACS Kol-32	International Symposium
6.	Development of Melamine animal glue resin having higher bond and self fire retardant properties	MESCoS-2015 date: 05-07, August, 2015	HIT, Haldia	Indian workshop and Symposium
7.	Development of jute reinforced composite from E-Latex, A natural binder	EFBDP: present and future. date: 09-10, Sepember, 2015	Mugberia Gangadhar Mahavidyalaya	National Seminar
8.	Women participation in Indian Parliamentary election; The 21 st century status of women in Indian politics	WEI: A challenge in the 21 st Century. date: 1st, March, 2017	Mugberia Gangadhar Mahavidyalaya	National Seminar
9.	Utilization of lightweight composite for structural purpose	NSNN-2017 date: 17-18, March, 2017	HIT, Haldia	National Seminar
10.	Development of Bio-based resin adhesive for structural purpose	NSNN-2017 date: 17-18, March, 2017	HIT, Haldia	National Seminar
11.	Effect of surface treatment of composite from wooden veneer-glass fiber hybrid	NSNN-2017	HIT, Haldia	National Seminar
12.	Evaluation of mechanical properties of plywood treated with a new wood preservative (CEB) chemical	NSNN-2017 date: 17-18, March, 2017	HIT, Haldia	National Seminar

13.	Patent; An Intellect property	IPR: contemporary issue and challenges in India date: 14 th September 2017	HLC, Haldia	National Seminar
14.	Role of a teacher as a manager	SCTE: Issue and concerns innovative practices. date: 15-16, March, 2018	IEH, Sutahata, Amlat	International Seminar
15.	Management of wood and wood- based panel product in India	Managing self in the VUCA world. date: 22-29, Sept, 2019	DMSS, HIT, Haldia	National Workshop
16.	School Administration and computer- based education, Sept-2013- Nov2013	Part-time counselor- NSOU-sponsored B. Ed. Program	IEH, Sutahata, Amlat, Haldia	National Workshop
17.	Role of a Teacher as a Manager 18.06.2014-01.07.2014	Resource person- IGNOU-Workshop and seminar	IEH, Sutahata, Amlat, Haldia	National Workshop
18.	School administration and course curriculum methodology, 12.10.2014-19.0.2014	Resource person- NSOU –Workshop and seminar	IEH, Sutahata, Amlat, Haldia	National Workshop
19.	Role of a teacher as a Manager 18.06.2015-29.06.2015	Resource person- IGNOU-Workshop and seminar	IEH, Sutahata, Amlat, Haldia	National Workshop
20.	Implementation strategies of RTE- 2009, 20.06.2015-01.07.2015	Chairperson- Implementation strategies of RTE-2009	IEH, Sutahata, Amlat, Haldia	National Workshop

21.	School administration and course curriculum methodology 18.06.2016-29.06.2016	Resource person- Workshop and seminar	IEH, Sutahata, Amlat, Haldia	National Workshop
22.	Implementation strategies of RTE-2009 Date: 18.06.2016-29.06.2016	Chairperson – Implementation strategies of RTE-2009	IEH, Sutahata, Amlat, Haldia	National Workshop
23.	25 th Sept, 2017	Evaluating Chair –NCSTC-DST-GOI	Raman Centenary Science Club, Purba medinipur	District level National Science congress
24.	Bio-based jute bamboo composite for diverse structural applications. 5-6 th April, 2018	Invited Speaker – National Conference on Advancement in Civil Engineering Practice and Research	Department of CE, HIT, Haldia	National level
25.	17-18 th March, 2017	Chairing a technical session-2 nd NSNN-2017	HIT, Haldia	National level
26.	Interdisciplinary Science and its Application in mankind, 28 TH FEB, 2020	Invited Speaker-National Science Day	VMM, Chaitanyapur	National level
27.	29 th sept-19 th Oct 2021	Program Coordinator e-Sip-2021	HIT, Haldia	National level
28.	An approach to the utilization of basic science concept in industrial application 29 th Oct-2 nd Nov 2021	Invited Speaker – International conference-CTCSIA-2021	HIT, Haldia and ICS-Kokata	International level

29	Right to Education Act -2009	Chairperson – Implementation strategies of RTE-2009	IEH, Sutahata, Amlat, Haldia	National Workshop
30.	Utilization of fast-growing bamboo- based lignocelluloses materials as a wood substitute to save forest reserve- 13-14 May 2022	International conference on rethinking business strategies by reshaping business perspectives in the current business environment	School of Management and Social Science, HIT, Haldia	International Conference

ADMINISTRATIVE POSITION/S HELD

SI.	Designation	Institution/ Department	Date		
No.			From	То	
1.	Officer-in-Charge	Examination, Haldia Institute of Technology Appointed by Maulana Abul Kalm Azad University of Technology (MAKAUT, Kolkata)	April 2018	Till date	
2.	Coordinator (Service to Nation)	National Service Scheme (NSS) Haldia Institute of Technology Appointed by Maulana Abul Kalm Azad University of Technology (MAKAUT, Kolkata)	September 2011	Till date	
3.	Coordinator (Service to Society)	Community Development Service (CDS) Appointed by Haldia Institute of Technology	May 2014	Till date	
4.	Acountant/Member	Max Club, Appointed by Haldia Institute of Technology	November, 2016	Till date	

5.	Coordinator	Startup Project, Appointed by Haldia Institute of Technology	2022	Till date

INVOLVEMENT IN STUDENTS RELATED CO-CURRICULAR & EXTENSION ACTIVITY

SI. No.	Activity	Description			
		Designation	Institution/ Department		Date
				From	То
1.	Student-related co-curricular, extension, and field-based activities such as student clubs, career counselling, study visits, student seminars and other events, cultural, sports, NCC, NSS, and community services.	Coordinator (P.O.)	NSS	07.08.2012	10.06.2022
2.		Coordinator	CDS	30.05.2014	10.06.2022
3.		Member/ Accountant	Max Club (aeronautics)	11.03.2016	10.06.2022
4.		Member	Student Welfare Committee	27.08.2014	10.06.2022

5.	Member	Sports committee	12.03.2013	10.06.2022
6.	Coordinator	SIP		
7.	Coordinator	SIP		
8.	Member	IIPC	10.06.2022	Till date

${\bf UMAN\ RESOURCE\ DEVELOPMENT\ CENTRE\ (HRDC)/ACADEMIC\ STAFF\ COLLEGE\ ORIENTATION\ /\ REFRESHER\ COURSE/OTHERS\ ATTENDED$

SI. N o.	Name of the Course/Summer School	Place	Duration	Sponsoring Agency
1.	Faculty Development Programme on Emerging Trends in Computing and Communication (ETCN-2015)	HIT, Haldia	One week (5-11Jan, 2015)	Organized by the School of Engineering at Haldia institute of technology.
2.	Faculty Development Programme on Bridging gap between academia and industry	HIT, Haldia	One week (5-11 Feb, 2015)	Organized by the IIPC TPO cell at Haldia institute of technology.

3.	Faculty Development Programme for student Induction (FDP-SI)	Sister Nivedita University	3Days (16-18 July, 20018)	AICTE
4.	Faculty Development Programme for student Induction (FDP-SI)	Sister Nivedita University	3Days (18-20 July, 2019)	AICTE
5.	Faculty Development Programme for Sustainable Technology-Innovation and foundation for future (FTIFF- 2020)	Online	5Days (12 ^{ve} Aug 16 th Aug, 2020)	HIT, Haldia
6.	Faculty Development Programme for Computational Techniques in chemistry and materials science- How to use contemporary software tools (FTIFF-2020)	Online	6Days (14 th Aug19 th September, 2020)	MAKAUT and IUST(J&K)
7.	Workshop on inculcating Universal Human Value in Technical education	Online	5Days (21 st Aug26 th Octo, 2020)	AICTE
8	Short term training program (STTP)	Online	6Days (06 th Aug11th Dec, 2022)	MAKAUT
9.	Refreshers course part 1 on Universal Human Value	Online	6Days (28 th Aug2 nd Feb, 2022)	AICTE
10.	40 Hours online faculty development program on "Optimization techniques in ML and Al	Online	26 th Feb to 7 th March 2022	NIT –Warangal (TS)and HIT, Haldia.