




Department of Chemistry

1. Name of staff members

					
Ms. Antara Sharma, Assistant Professor & Head	Dr. Rajendra Pradhan, Graduate lab Instructor Professor	Dr. Rajani Dewan Assistant Professor	Dr. Dhiraj Brahman Assistant Professor	Dr. Sailesh Chettri, Assistant Professor	Mr. Pranesh Rai, Assistant Professor

2. Number of students

Number of students admitted (2022-23)	15
Number of students passed out (2022-23)	14

3. Name of the students (previous years) progressing to higher studies/ qualified (GRE/TOEFL/NET/ SLET/ GATE/ SSC/ WBCS/ UPSC etc) /employed (if any)

Sl. No.	Name of students	Exam passed/ Employed	Year
1	Nilankar Diyali	CSIR-UGC	December 2022

4. Awards received by any staffs or students (if any)

Name	Awards	Awards received from:
n	A	

5. Details of FDP (OP / RC/ STC) attended by the faculty members

Sl. No.	Name	(OP / RC/ STC)	Title and duration
1			
2			

6. Details of Research Project sanctioned / running/ completed by the faculty members

Name of Supervisor (Co-Supervisor)	Name of the Project	Funding agency (Write self if it s not funded by any other)	Name of scholar	Sanctioned on/ Running From/ Completed on
na				

7. Name(s) of the faculty members awarded M.Phil / Ph.D.

Name	M.Phil. / Ph.D.

Dr Sailesh Chettri	Ph.D
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8. Research papers of all the faculty members of the department published during the academic year (July to June) with doi

Authors (Bold font for the author from the department)	Title of paper	Name of Journal,	ISBN/ISSN, Year, Vol, page	doi (give a spacebar after the number)
Antara Sharma , Pranish Bomzan, Debadrita Roy, Abhijit Chhetri, Subhankar Choudhury, Narendra Nath Ghosh, Salim Ali, Puja BK, Shilpi Ghosh, Ankita Dutta, Anoop Kumar and Mahendra Nath Roy	Molecular assembly of Rhodanine with torus shaped cyclodextrins and their Innovative Contrivance Simultaneously Optimized by Computational Study	Chemistry Select	ISSN: 2365-6549 Volume 8, e202300417 , February 2023	doi.org/10.1002/slct.202300417
Sailesh Chettri , Sumiran Tamang Biswajit Sinha and Dhiraj Brahman	An efficient and green protocol for the synthesis of 1-hydroxy-2-arylimidazole-3-oxide derivatives under solvent-free condition using inexpensive copper borate (CuB ₄ O ₇) catalyst.	Monatshefte für Chemie - Chemical Monthly	ISSN: 1434-4475, 2023, 154, 635-643	DOI: https://doi.org/10.1007/s00706-023-03068-1
Sailesh Chettri , Sumiran Tamang, Prasansha Rai, Yachna Rai, Uttam Kumar Singha, Kiran Pradhan, Dhiraj Brahman and Biswajit Sinha.	Synthesis, physico chemical characterization and theoretical exploration of some 2,4,5-triaryl imidazole derivatives.	Journal of Heterocyclic Chemistry	ISSN: 1943-5193, 2023, 60(8), 1-22	DOI: https://doi.org/10.1002/jhet.4670
Sailesh Chettri , Sumiran Tamang, Kiran Pradhan, Biswajit Sinha and Dhiraj Brahman.	Copper borate (CuB ₄ O ₇)-promoted multicomponent green synthesis of 2,4,5-triarylimidazole derivatives and evidence of in situ conversion of copper borate (CuB ₄ O ₇) into Cu(OAc) ₂ in the presence of NH ₄ OAc.	RSC Advances	ISSN: 2046-2069, 2023, 19846-19855	DOI: https://doi.org/10.1039/d3ra03183g
Sailesh Chettri , Kiran Pradhan, Biswajit Sinha, Purak Das and Dhiraj Brahman.	Synthesis, crystal structure, Hirshfeld surface analysis and catalytic activity of new Cobalt (II) complex of 4-Nitrobenzoic acid and 1-Methylimidazole	Journal of Molecular Structure	ISSN: 1872-8014	https://doi.org/10.1016/j.molstruc.2023.136072

9. Books / Chapter(s) in books with ISBN number

Authors (Bold font for the author from the department)	Name of Book	Title of the chapter	ISBN/ISSN, Year,	Publisher	doi (give a spacebar after the number) if available

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10. Paper presentation by the faculty members in Seminars / invited lectures etc.

Authors (Bold font for the author from the department)	Title of the paper	Title of the Seminar	Organized/Sponsored by	Date
Antara Sharma, Mahendra Nath Roy	Molecular assembly of Rhodanine with torus shaped cyclodextrins and their Innovative Contrivance Simultaneously Optimized by Computational Study	International Seminar on Frontiers of Chemistry and Prof. C.N.R Rao Endowment Lecture	Department of Chemistry, University of North Bengal, Darjeeling India in association with CRSI-North Bengal Chapter Local Chapter	13-15 th March 2023
Antara Sharma, Mahendra Nath Roy	Exploring Inclusion Complex of an anti-cancer drug with beta-cyclodextrin for reducing cytotoxicity towards normal human cell line by experimental and computational approach	International conference on Advances in Plants, Microbes and Agricultural Sciences	DBT, DST-SERB (Govt. of India) Sponsored and Organized by DST (FIST) & UGC-SAP assisted Department of Botany, University of North Bengal	2 nd -4 th March 2023
Rajani Dewan, Mahendra Nath Roy	Molecular interaction of selected amino acid in room temperature ionic liquid: A case study of L-proline and L-leucine in aqueous Tetrabutyl Phosphonium <i>p</i> -Toluene Sulphonate.	International Seminar on Frontiers of Chemistry and Prof. C.N.R Rao Endowment Lecture	Department of Chemistry, University of North Bengal, Darjeeling India in association with CRSI-North Bengal Chapter Local Chapter	13-15 th March 2023
Dhiraj Brahman	Iron rich chloride mineral Multi-functional catalyst synthesis of N-containing Heterocyclic compounds	International Seminar on Frontiers of Chemistry and Prof. C.N.R Rao Endowment Lecture	Department of Chemistry, University of North Bengal, Darjeeling India in association with CRSI-North Bengal Chapter Local Chapter	13-15 th March 2023
Sailesh Chettri, Biswajit Sinha and	Synthesis, Physico-chemical Characterisation and Theoretical Study of some 2,4,5-triaryl imidazole derivatives	International Seminar on Frontiers of Chemistry and Prof.	Department of Chemistry, University of North Bengal, Darjeeling India in association	13-15 th March 2023

Dhiraj Brahman		C.N.R Rao Endowment Lecture	with CRSI-North Bengal Chapter Local Chapter	
Pranesh Rai, Biswajit Sinha	Synthesis, structural characterization, in vitro cytotoxicity activity and ROS assay against ACHN cell-line of a new pyridinium ionic liquid tagged Schiff base and it's Cu (II)/ Zn (II) /Cd (II) - complexes	International Seminar on Frontiers of Chemistry and Prof. C.N.R Rao Endowment Lecture	Department of Chemistry, University of North Bengal, Darjeeling India in association with CRSI-North Bengal Chapter Local Chapter	13-15 th March 2023

11. Collaborative activities **with other Institutions** for research, Faculty exchange, Student exchange/internship during the year (if any)

Name of the Programme	In collaboration of:	Number of teachers and students involved	Date
na			

12. Upgradation of the department (if any).

Particulars	Model	Room No.	Date
LCD	na		
Computer	na		
Books	20000/-		
Any other Lab expenditure (Instruments, Apparatus, Chemicals)	2,69,914/-		


13. Name(s) of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year (if any)

Name of students	Career counselling agency	Date
na		

14. Details of awards/medals for outstanding performance in sports/cultural activities at university/state/national / international level (award for a team event should be counted as one) during the year (if any)

Sl. No.	Name of students	Award	Event organized by	Date
na				

15. Details of project work/field work/internship during the year if any. (Mandatory fields: Title, Place, Date, Number of Students, Name of the teacher(s) involved, Geotagged photographs with caption (not more than three), Outcome of the programme. **(If the department has organized more than one activity please copy the following table and fill that separately)**

Name of the activity	Student Exchange Program
Venue	St. Joseph's College
Date & Time	17 th -20 th November 2022
No. of Students involved (Semester-wise)	1 st Semester-15 ,3 rd Semester -23, 5 th Semester-32
Name of teacher(s) involved	(1) Ms. Antara Sharma, (2) Dr.Rajani Dewan, (3) Dr.Rajendra Pradhan, (4) Dr. Dhiraj Brahman (5) Dr.Sailesh Chettri, (6) Mr. Pranesh Rai,
Details of Activity carried out	Report attached
Geotagged photographs with caption (not more than 3)	
	 <p>Darjeeling, WB, India North Point, Darjeeling, 734104, WB, India Lat 27.060192, Long 88.250336 11/19/2022 12:54 GMT+05:30</p>
	<p>Outcome of the activity (1) The Student Exchange Program organised by St.Joseph's College, Darjeeling in collaboration with Barrackpore Rashtraguru Surendra Nath College, Kolkata was a successful event and the students from both the colleges benefitted a lot from this program.</p> <p>(2) Students got the exposure to a new culture which enabled them to learn new perspectives.</p> <p>(3) This program also helped participants to learn a new language and proficiency in multiple languages is certainly a significant skill in today's job market.</p> <p>(4) Overall, this program helped participants to experience different academic communities that will consequently improve their academic skills.</p>