



# University of Calcutta

## Department of Chemistry

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## History

**Year of Establishment:** 1914 (1886 in Presidency Campus)

**History of the department:** With the progress of time, the Department of Chemistry of the University of Calcutta has experienced a remarkable development and has grown into one of the topmost national teaching and research centers in Chemistry. As a pioneer of academic deliberation and research activity, the department has greatly contributed to produce talents who are leading the national and global scenario. It is well-known that this department started functioning since the foundation of the University College of Science, and the foundation stone was laid by the great visionary Sir Ashutosh Mukherjee, the then Vice-Chancellor, on 27th March 1914. Prior to this, the post-graduate classes in Chemistry had been conducted at Presidency College. The University College of Science at 92, Acharya Prafulla Chandra Road, Kolkata (now renamed as Rashbehari Siksha Prangan) undertook the program of teaching the subjects of Chemistry, Physics and Mathematics in 1914. The newly-established University College of Science was aided generously by the great philanthropists and nationalists of that time, particularly Sir Rashbehari Ghosh, Sir Tarak Nath Palit and Kumar Guruprasad Singh of Khaira. This institute, in turn, took a vital role in the spreading of science education and research throughout the subcontinent. Teaching and research in Chemistry at our department was initiated by Acharya Prafulla Chandra Ray, Profulla Chandra Mitter, Jnan Chandra Ghosh and Jnanendra Nath Mukherjee. Among other eminent personalities who joined the department later and enriched its scholarly activities were Jogendra Chandra Bardhan, Priyadarjan Ray, Pulin Behari Sarkar, Bhupendra Nath Ghosh, Prafulla Kumar Bose, Jnanendra Nath Roy, (Mrs.) Asima Chatterjee, Sadhan Basu, etc.

Our department has a long tradition of carrying out high-quality research in several areas of Chemistry. Outstanding contributions have been made in the fields of Natural Product Chemistry, Organic Synthesis, Heterocyclic Chemistry, Coordination Chemistry, Electrochemistry, Colloid and Surface Chemistry, Quantum Chemistry, Environmental Chemistry and Analytical Chemistry. In addition, emphasis is being given to several frontiers of chemistry like Organometallic Chemistry, Catalysis, Synthetic Methodology, Selective Bond Activation, Drug Development from Natural Products, Green Chemistry, Surfactant Chemistry, Fabrication of Organic and Inorganic Materials, Organic Electronics, Photochemistry, Carbohydrate Chemistry, Protein Engineering, Bio-Organic, Bio-Inorganic and Bio-Physical Chemistry, Crystal Engineering, Theoretical and Computational Chemistry, etc. Collaborative research activities are also going on with intra-departmental and inter-departmental faculty members of this university, sister Universities and research institutes in India and abroad.

In recognition of the contributions made by the department towards research, the University Grants Commission selected it to operate a Special Assistance Program on Natural Products in 1972. Since 1987, this had been upgraded to a venture of Advanced Studies of Natural Products. An UNESCO-UNDP program operated in the Department for a number of years. A COSIST program (UGC) operated during the period 1995-1999 in the thrust areas of Photo-Physical Studies, Coordination Chemistry and Environmental Chemistry. In 2000, the Department started a DST-FIST program and had successfully completed the project;

subsequently, a new DST-FIST project was sanctioned of about rupees two crore which was a major boost up for instrument facility in this Department. We have also received UPE UGC scheme for GC-MS instrument. Several theory groups of the department have now the state-of-the-art computational facilities. Internet facilities are available all over the Department and its upgradation to ultrafast optical fiber networking system is also completed. Recently, the department has been recognized as a UGC-Center for Advanced Studies for the fifth time [CAS(V)] in Chemistry with a grant of more than 3 crore rupees.

The Department is quite well-equipped with several sophisticated instruments for research. These include 300 MHz NMR (Bruker), single crystal XRD (Bruker), GC-MS (Perkin Elmer), FT-IR Spectrophotometer, Fluorescence Life-Time Measurement, Fluorimeter (Perkin Elmer), UV-vis Spectrophotometer (Hitachi), HPLC (Shimadzu), Polarimeter (Perkin Elmer), UV-VIS-NIR Spectrophotometers (Perkin Elmer), React IR (Mettler Toledo), DLS (Malvern), Dye Laser, Nd-YAG Laser, ESI-MS (Waters) and many others.

From the academic session 2007-2009, the Department has introduced a Semester System with a major modification in the M. Sc. curriculum and examination system. New courses like Modern Spectroscopic techniques, Nano-Chemistry, Advanced Synthetic strategies, Green Chemistry, Molecular Magnetism, Computational Chemistry, Statistical and Numerical methods, Bio-Inorganic, Bio-Organic, Bio-Physical and Bio-Analytical Chemistry have been introduced, along with the project works and seminar presentations. Our M. Sc. students are performing excellently well in national competitive examinations such as NET (UGC-CSIR) and GATE (IIT). Some are also qualifying the GRE regularly to join the Ph. D. programs abroad every year. Our department has also adopted the UGC norms for the Ph. D. registration of the Research Scholars by introducing a one semester course work. International symposiums were organized in 2006, 2009, 2011, 2013 and 2014 and one National Symposium has been organized in 2016. A number of books and a large number of scientific papers (> 100 per year) are published in the international journals of Nature Publishing Groups, American Physical Society, American Chemical Society, Wiley, Royal Society of Chemistry, Science Direct etc. each year.

Our faculty members are highly recognized for their contribution in academics. In recent years several members of our faculty have been rewarded by the Chemical Research Society of India (CRSI) and one of our faculty members has been rewarded by the National Council for Science and Technology Communication (**NCSTC**), DST, India.

Our department has taken appropriate initiative to commemorate the pioneering contributions made by Acharya Prafulla Chandra Ray, who started Chemistry research in India. A museum was set up in 1997 in the historic room of the department in which he used to live and work.

In all its endeavor, the department strives to live up to the lofty ideals set up by its founders, and the eminent personalities who helped it thrive.

**Special award/ recognition from UGC or related statutory body :** UGC Center for Advanced Studies (CAS) for consecutive five times

## Academic Faculty Members :

Name	Designation	Section	Email/Phone number
Prof. Ashutosh Ghosh <b>(on Lien)</b> <b>[Profile]</b> <b>(Chemistry/A_Ghosh_CV.pdf)</b>	Professor	Analytical Chemistry	ghosh59@yahoo.com agchem@caluniv.ac.in 9433344484
Prof. Chaitali Mukhopadhyay <b>[Profile]</b> <b>(Chemistry/Chaitali-Mukhopadhyay.pdf)</b>	Professor	Physical Chemistry	cmchem@caluniv.ac.in chaitalicu@yahoo.com cuchaitali@gmail.com 9831195624
Debasis Mukhopadhyay <b>[Profile]</b> <b>(Chemistry/Debasis-Mukhopadhyay.pdf)</b>	Professor	Physical Chemistry	dm.chem.cu@gmail.com 9831351332
Prof. Chhanda Mukhopadhyay <b>[Profile]</b> <b>(Chemistry/Chhanda-Mukhopadhyay.pdf)</b>	Professor	Organic Chemistry	cmukhop@yahoo.co.in chmchem@caluniv.ac.in 9433019610
Prof. Asish Ranjan Das <b>[Profile]</b> <b>(Chemistry/Asish-Ranjan-Das.pdf)</b>	Professor	Organic Chemistry	ardchem@caluniv.ac.in ardas66@rediffmail.com 9433120265

Prof. Sasanka Sekhar Mohanta [Profile] (Chemistry/Sasankasekhar-Mohanta.pdf)	Professor & HOD	Inorganic Chemistry	sm_cu_chem@yahoo.co.in smchem@caluniv.ac.in 9330962779
Prof. Animesh Pramanik [Profile] (Chemistry/Animesh-Pramanik.pdf)	Professor	Organic Chemistry	pramanikanimesh61@gmail.com 9830107470
Prof. Dilip Kumar Maiti [Profile] (Chemistry/Dilip-Kumar-Maiti.pdf)	Professor	Organic Chemistry	dkmchem@caluniv.ac.in maitdk@yahoo.com 9433379965
Prof. Debasis Das [Profile] (Chemistry/Debasis-Das.pdf)	Professor	Inorganic Chemistry	dasdebasis2001@yahoo.com 9830345023
Prof. Nikhil Guchhait [Profile] (Chemistry/Nikhil-Guchhait.pdf)	Professor	Physical Chemistry	nguchhait@yahoo.com 8013468082
Prof. Susanta Sekhar Adhikari [Profile] (Chemistry/Susanta-Sekhar-Adhikari.pdf)	Professor	Organic Chemistry	ssachem@caluniv.ac.in adhikarisusanta@yahoo.com 9433352273
Prof. Pinaki Chaudhury [Profile] (Chemistry/Pinaki-Chaudhury.pdf)	Professor	Physical Chemistry	pinakc@rediffmail.com pcchem@caluniv.ac.in 9830480149
Dr. Swapan Chakrabarti [Profile] (Chemistry/Swapan-Chakrabarti.pdf)	Associate Professor	Physical Chemistry	swapanchem@yahoo.co.in 9830057562
Dr. Debabrata Mandal [Profile] (Chemistry/Debabrata-Mandal.pdf)	Associate Professor	Analytical Chemistry	mandaldeb@yahoo.com 9732099347
Dr. Sanchita Goswami [Profile] (Chemistry/Sanchita-Goswami.pdf)	Assistant Professor	Inorganic Chemistry	sgchem@caluniv.ac.in goswami.sanchita@gmail.com 9433125290
Dr. Kamalika Sen [Profile] (Chemistry/Kamalika-Sen.pdf)	Assistant Professor	Analytical Chemistry	kamalchem.roy@gmail.com 9163295148
Dr. Tanushree Sanyal (Bala) [Profile] (Chemistry/Tanushree-Sanyal(Bala).pdf)	Assistant Professor	Physical Chemistry	tanushreebala@gmail.com 9903484354
Dr. Subhas Samanta [Profile] (Chemistry/Subhas-Samanta.pdf)	Assistant Professor	Organic Chemistry	subhastp@gmail.com sschem@caluniv.ac.in 9732739595
Dr. Kuntal Pal [Profile] (Chemistry/Kuntal_Pal.pdf)	Assistant Professor	Inorganic Chemistry	kuntalpall@gmail.com kpchem@caluniv.ac.in 9647611764
Dr. Smritimoy Pramanik [Profile] (Chemistry/Smritimoy-Pramanik.pdf)	Assistant Professor	Analytical Chemistry	spchem@caluniv.ac.in smritimoyju@yahoo.co.in 9836572051
Dr. Ramananda Maity [Profile] (Chemistry/Ramananda-Maity.pdf)	Assistant Professor	Inorganic Chemistry	rmchem@caluniv.ac.in 8967281946
Dr. Mijanur Rahaman Molla [Profile] (Chemistry/Mijanur-Rahaman-Molla.pdf)	Assistant Professor	Organic Chemistry	mija.chem@gmail.com mrrmchem@caluniv.ac.in 9239018512
Dr. Srijit Biswas [Profile] (Chemistry/srijit-biswas.pdf)	Assistant Professor	Organic Chemistry	srijit_biswas@yahoo.co.in 9044370898

## Courses :

<b>Programme</b>	<b>Level of study</b>	<b>Eligibility</b>	<b>Intake capacity</b>
M.Sc.(Chemistry)	Master degree	Graduate with Honours in Chemistry with minimum 55% of marks in Chemistry (decided by admission committee and that may vary from year to year).	74 (Seventy four)
Ph.D.(Science)	Doctoral degree	M.Sc. followed by qualification in RET(Research Eligibility Test), following UGC criteria.	Not Applicable

## Research

### Research scholars :

<b>Name</b>	<b>Research topic</b>	<b>Name of the supervisor</b>	<b>Date of registration</b>
Debanjana Biswal	Physical and Inorganic Chemistry	Prof. Syamal Chakrabarti	11.05.2015
Dr. Sanjib Giri	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Dr. Kisholoy Bhattacharya	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Dr. Oindrita Das	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Dr. Subrata Jana	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Dr. Rupam Sen	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Dr. Maharudra Chakraborty	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Soumava Ghosh	Inorganic Chemistry	Prof. Ashutosh Ghosh	11.01.2013
Prithwish Mahapatra	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Avijit das	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Monotosh Mondal	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Sayantan Ganguly	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Alokesha Hajari	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Tanmoy Kumar Ghosh	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Sabarni Dutta	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Souvik Maity	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Pampa Mukherjee	Inorganic Chemistry	Prof. Ashutosh Ghosh	
Sharmistha Dhatt	Theoretical Chemistry	Prof. Kamal Bhattacharyya	
Swagata Halder	Physical and Theoretical Chemistry	Prof. Chaitali Mukhopadhyay	18.06.2013

Zarrin Shahzadi	Physical and Theoretical Chemistry	Prof. Chaitali Mukhopadhyay	27.05.2016
Dr. Mousumi Banerjee	Physical and Theoretical Chemistry	Prof. Chaitali Mukhopadhyay	
Bhaswati Bhattacharyya	Organic Chemistry	Dr. Kaliprasanna Dhara	16.03.2011
Arijit Kundu	Organic Chemistry	Dr. Kaliprasanna Dhara	08.12.2014
Aniruddha Das	Organic Chemistry	Dr. Kaliprasanna Dhara	08.04.2016
Prasun Mukherjee	Organic Chemistry	Prof. Asish Ranjan Das	13.10.2014
Nazia Kausar	Organic Chemistry	Prof. Asish Ranjan Das	14.10.2014
Moumita Saha	Organic Chemistry	Prof. Asish Ranjan Das	16.02.2016
Dr. Dinesh Maity	Inorganic Chemistry	Prof. Sasankasekhar Mohanta	
Dr. Arpita Jana	Inorganic Chemistry	Prof. Sasankasekhar Mohanta	
Leena Mandal	Inorganic Chemistry	Prof. Sasankasekhar Mohanta	11.01.2013
Priyanka Chakraborty	Inorganic Chemistry	Prof. Sasankasekhar Mohanta	11.01.2013
Shuvankar Mandal	Inorganic Chemistry	Prof. Sasankasekhar Mohanta	31.03.2014
Shuvayan Roy	Inorganic Chemistry	Prof. Sasankasekhar Mohanta	13.02.2015
Sagar Ghosh	Inorganic Chemistry	Prof. Sasankasekhar Mohanta	25.05.2015
Nairita Hari	Inorganic Chemistry	Prof. Sasankasekhar Mohanta	23.07.2015
Dr. Soumen Sarkar	Organic Chemistry	Prof. Animesh Pramanik	
Kamalesh Debnath	Organic Chemistry	Prof. Animesh Pramanik	21.02.013
Chandan Bodhak	Organic Chemistry	Prof. Animesh Pramanik	30.12.2015
Sayan Muhkerjee	Organic Chemistry	Prof. Animesh Pramanik	
Subhro Mandal	Organic Chemistry	Prof. Animesh Pramanik	
Tania Kundu	Organic Chemistry	Prof. Animesh Pramanik	
Dr. Santinath Sarkar	Organic Chemistry	Prof. Dilip Kumar Maiti	
Dr. Subasish Samai	Organic Chemistry	Prof. Dilip Kumar Maiti	
Dr. Tista Sengupta	Organic Chemistry	Prof. Dilip Kumar Maiti	
Dr. Uttam K. Das	Organic Chemistry	Prof. Dilip Kumar Maiti	
Dr. Tuluma Das	Organic Chemistry	Prof. Dilip Kumar Maiti	
Dr. Enakshi Dinda	Organic Chemistry	Prof. Dilip Kumar Maiti	
Dr. Ramprasad Ghosh	Organic Chemistry	Prof. Dilip Kumar Maiti	
Dr. Sanghamitra Atta	Organic Chemistry	Prof. Dilip Kumar Maiti	
Dr. Sudipta Ray	Organic Chemistry	Prof. Dilip Kumar Maiti	
Dr. Dripta De Joarder	Organic Chemistry	Prof. Dilip Kumar Maiti	
Dr. Palash Dutta	Organic Chemistry	Prof. Dilip Kumar Maiti	
Nabyendu Pramaniki	Organic Chemistry	Prof. Dilip Kumar Maiti	
Dipanwita Roy	Organic Chemistry	Prof. Dilip Kumar Maiti	
Subhadeep Ghosh	Organic Chemistry	Prof. Dilip Kumar Maiti	

Radha Madhab Laha	Organic Chemistry	Prof. Dilip Kumar Maiti	19.02.2015
Ramij Raja Mondal	Organic Chemistry	Prof. Dilip Kumar Maiti	13.02.2015
Sudipto Debnath	Organic Chemistry	Prof. Dilip Kumar Maiti	20.04.2016
Debasish Ghosh	Organic Chemistry	Prof. Dilip Kumar Maiti	
Rajendra Nath Mitra	Organic Chemistry	Prof. Dilip Kumar Maiti	16.02.2016
Tanmoy Ghosh	Organic Chemistry	Prof. Dilip Kumar Maiti	
Rituparna Maiti	Organic Chemistry	Prof. Dilip Kumar Maiti	
Tania Saha	Organic Chemistry	Prof. Dilip Kumar Maiti	
Rajib Sarkar	Organic Chemistry	Prof. Chhanda Mukhopadhyay	05.04.2013
Piyali Sarkar	Organic Chemistry	Prof. Chhanda Mukhopadhyay	18.07.2013
Animesh Mondal	Organic Chemistry	Prof. Chhanda Mukhopadhyay	14.10.2014
Kajal De	Organic Chemistry	Prof. Chhanda Mukhopadhyay	22.04.2015
Pampa maiti	Organic Chemistry	Prof. Chhanda Mukhopadhyay	
Priya Mandal	Organic Chemistry	Prof. Chhanda Mukhopadhyay	
Soumyadip Basu	Organic Chemistry	Prof. Chhanda Mukhopadhyay	
Rajiv Karmakar	Organic Chemistry	Prof. Chhanda Mukhopadhyay	
Priyanka Kundu	Inorganic Chemistry	Prof. Debasis Das	10.03.2014
Suranjana Purkait	Inorganic Chemistry	Prof. Debasis Das	13.02.2015
Ishani Majumder	Inorganic Chemistry	Prof. Debasis Das	25.05.2015
Sanchari Dasgupta	Inorganic Chemistry	Prof. Debasis Das	01.02.2016
Aratrika Chakraborty	Inorganic Chemistry	Prof. Debasis Das	01.02.2016
Tanmoy Chakraborty	Inorganic Chemistry	Prof. Debasis Das	
Arnab Mandal	Inorganic Chemistry	Prof. Debasis Das	
Soumen Ghosh	Physical Chemistry	Prof. Nikhil Guchhait	08.08.2013
Aniruddha Ganguly	Physical Chemistry	Prof. Nikhil Guchhait	19.09.2013
Arghyadeep Bhattacharyya	Physical Chemistry	Prof. Nikhil Guchhait	
Subhash Chandra Makhal	Physical Chemistry	Prof. Nikhil Guchhait	
Riya sett	Physical Chemistry	Prof. Nikhil Guchhait	
Swagata sen	Physical Chemistry	Prof. Nikhil Guchhait	
Avijit Ghosh	Organic Chemistry	Prof. Susanta Sekhar Adhikari	18.07.2013
Md. Yousuf	Organic Chemistry	Prof. Susanta Sekhar Adhikari	09.09.2013
Subhajit Guria	Organic Chemistry	Prof. Susanta Sekhar Adhikari	
Dr. Abhishek Pal	Organic Chemistry	Prof. Susanta Sekhar Adhikari	10.01.2012

Pulak Naskar	Theoretical Chemistry	Prof. Pinaki Chaudhury	
Alok Kumar Maity	Theoretical Chemistry	Prof. Pinaki Chaudhury	21.02.2013
Rijaul Mirdha	Theoretical Chemistry	Prof. Pinaki Chaudhury	
Mintu Nandi	Theoretical Chemistry	Prof. Pinaki Chaudhury	
Sankar Ghorai	Theoretical Chemistry	Prof. Pinaki Chaudhury	
Sayantanu Koley	Theoretical Chemistry	Dr. Swapan Chakrabarti	01.12.2015
Lopa Paul	Theoretical Chemistry	Dr. Swapan Chakrabarti	01.02.2016
Subhodip Chatterjee	Theoretical Chemistry	Dr. Swapan Chakrabarti	
Sumanta Kumar Ghatak	Analytical Chemistry	Dr. Kamalika Sen	14.01.2014
Arbinda Chakraborty	Analytical Chemistry	Dr. Kamalika Sen	08.09.2014
Kangkana sarkar	Analytical Chemistry	Dr. Kamalika Sen	22.09.2014
Sankar Prasad Paik	Analytical Chemistry	Dr. Kamalika Sen	22.04.2013
Mita halder	Analytical Chemistry	Dr. Kamalika Sen	22.12.2015
Ansari Zarina Mohd Yunus Nazma	Analytical Chemistry	Dr. Kamalika Sen	06.04.2016
Partha Pratim Chakraborty	Analytical Chemistry	Dr. Kamalika Sen	22.04.2013
Ritwik Modak	Inorganic Chemistry	Dr. Sanchita Goswami	24.05.2011
Senjuti Mandal	Inorganic Chemistry	Dr. Sanchita Goswami	05.04.2013
Yeasin Sikdar	Inorganic Chemistry	Dr. Sanchita Goswami	06.12.2013
Barnali Naskar	Inorganic Chemistry	Dr. Sanchita Goswami	03.01.2014
Sumit Kumar Mondal	Inorganic Chemistry	Dr. Sanchita Goswami	
Sutapa Sahu	Inorganic Chemistry	Dr. Sanchita Goswami	
Riya Bag	Inorganic Chemistry	Dr. Sanchita Goswami	
Subhasis Das	Physical Chemistry	Dr. Tanushree Sanyal (Bala)	14.10.2014
Debasmita Sardar	Physical Chemistry	Dr. Tanushree Sanyal (Bala)	16.06.2014
Jayeeta Maity	Physical Chemistry	Dr. Tanushree Sanyal (Bala)	
Deborin Ghosh	Physical Chemistry	Dr. Debabrata Mandal	21.02.2013
Giasuddin Ahamed	Physical Chemistry	Dr. Debabrata Mandal	03.05.2012
Nabaruna Basu	Physical Chemistry	Dr. Debabrata Mandal	27.05.2016
Madhushree Mal	Physical Chemistry	Dr. Debabrata Mandal	
Jayanta Bag	Inorganic Chemistry	Dr. Kuntal Pal	

## Projects :

Project title	Funding agency	Principal investigator	Duration	Budget(/lac)
Design, Synthesis ..	SERB-DST, India	Professor Susanta Sekhar Adhikari	2013- Dec, 2016	Rs. 48.00
C-S/C-N/C-O activated ..	CSIR, India	Professor Dilip Kumar Maiti	Jan,2016 - 2019	Rs. 29.53
Controlled Synthesis..	DST, India	Dr.Tanushree Sanyal(Bala)	2012- 2016	Rs 26.6

Radiation Induced ..	UGC-DAE-CSR, INDIA	Dr. Kamalika Sen	2013-Dec,2016	Rs 12.00
Developing Mn-Ca ..	DST, West Bengal	Dr. Sanchita Goswami	Feb,2016 – Feb,2019	Rs. 9.68

## Thrust areas in teaching and research of the academic Department :

**Teaching :** Modern Spectroscopic techniques, Quantum and Non-equilibrium Statistical Mechanics along with applications to Chemistry, Statistical and Numerical methods, Computational Chemistry, Nano-Chemistry, Advanced Synthetic strategies, Green Chemistry, Molecular Magnetism, Bio-Inorganic, Bio-Organic, Bio-Physical and Bio-Analytical Chemistry

**Research :** Photochemistry, Theoretical and Computational Chemistry, Molecular Spintronics and Optical Processes, Bio-Physical Chemistry, Molecular Dynamics, Nanomaterial Synthesis Characterization and Sensing Properties, Organometallic Chemistry, Molecular Magnetism, Chemosensor, Synthetic Methodology, Transition Metal Chemistry, Modern aspects of Heterogeneous Catalysts, Selective Bond Activation, Drug Development from Natural Products, Green Chemistry, Fabrication of Organic and Inorganic Materials, Carbohydrate Chemistry, Protein Engineering, Bio-Organic, Bio-Inorganic, Crystal Engineering, Virtual Nanoscience

## Research Support :

Name of the equipment	Brief description	Funding agency
Single Crystal X-Ray Defractometer	Cost = Rs. 1,20,35,344/=	DST - FIST
Time-Resolved Spectrophotometer	Cost = Rs. 35,89,739/=	DST - FIST
Lamda 25 U/V/Spectrometer ...03Nos.	Cost = Rs. 7,95,805/=	DST – FIST
Rotary Vacuum Evaporator – 03 Nos.	Cost = Rs. 7,22,732/=	DST - FIST
NMR – 300 MHz	Cost = Rs. 74,99,942/=	CAS - III
Gaschromatography	Cost = Rs. 12,25,137/=	COSIST
Spectrophotometer HITACHI	Cost = Rs. 15,84,335/=	COSIST
FTIR	Cost = Rs. 20,48,282/=	UGC – BSR
TGA	Cost = Rs. 9,49,128/=	DST – FIST
Electrochemical Work Station	Cost = Rs. 4,47,005/=	DST – FIST
GC -MS	Cost = Rs. 48,76,959/=	UPE (S)
ESI - MS	Cost = Rs. 1,89,74,559/= + clearing agents charge not known	DST - PURSE

## Contact

**Campus :** Rashbehari Siksha Prangan (Rajabazar Science College Campus)

**Address for communication :** Department of Chemistry, 92, A.P.C Road, Kolkata-700 009



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[University Library](https://www.culibrary.ac.in/) (<https://www.culibrary.ac.in/>) → [MoU \(MOU/mou.html\)](#)

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