

# Chemistry Department

St. Edmund's College, Shillong

## Individual Profiles of the Faculty and the Support Staff



**Mr. Subrata Purkayastha**

*Associate Professor*

M.Sc. (Inorganic Chemistry)

Years of experience: 35

Publications in National & International journals: 09

Major area in teaching: General inorganic chemistry, coordination chemistry and analytical chemistry.

Research interest: General chemistry and analytical chemistry.

Publications:

1. An alternative form of periodic table, Sybrata Purkayastha and Debojit Kumar Deb, *Spectrum*, Vol. III, No. 1-4, 2010-2011.
2. An Useful Scheme for predicting the geometrical isomers of co-ordination Compounds by Subrata Purkayastha, Randhir Rai and Debojit Kumar Deb, *Spectrum* Vol –IV and V, No. 1-4, 2012- 2013.



**Dr. Sujit Nandi Mazumdar**

*Associate Professor,*

Ph.D (Organic Chemistry)

Years of experience:

(i) Undergraduate level: 35 years of teaching and research.

(ii) Post graduate level: 2 years (Assam University)

Publications in National & International journals: 14

Major area in teaching: Spectroscopy, Stereochemistry, Photochemistry, Heterocyclic and Pericyclic reactions.

**Major achievements / contributions to the society:**

1. Chief Examiner, North Eastern Hill University, 2013 till date.
2. Academic committee member of science, MBOSE, Govt. of Meghalaya from 2010 till date.
3. Member of Text Book review committee, DERT, Govt. of Meghalaya, Shillong 2006 till date.



**Mr. Sumit Deb**

*Associate Professor,*

M.Sc (Physical Chemistry)

Years of experience: 23

Publications in National & International journals: 02

Major area in teaching: Thermodynamics, Kinetics, Quantum Chemistry, Solid State, Spectroscopy, etc

**Major achievements / contributions to the society:**

1. Paper Setter, Examiner (Theory and Practical) and Moderator for Under-Graduate Examination of NEHU, Assam Univ., Mizoram Univ.
2. Examiner (Theory and Practical) of Class-XII Board Examination of MBOSE.
3. Question Setter of different Entrance examinations in Chemistry.
4. Member of College NAAC Core Committee until 2014.
5. Member of College Admission Committee.
6. College Nodal Officer, AISHE, MHRD, Gol
7. Centre Supervisor for UPSC/ Staff Selection Exam until 2014.
8. Advisor, Expert Committee, Institutional Biotech Hub, SEC, sponsored by DBT, Gol from 2011.
9. Advisor, Expert Committee, Bioinformatics, SEC, sponsored by DBT, Gol from 2011.
10. Advisor, Advisory Committee, Star College Scheme, SEC, sponsored by DBT, Gol from 2011.
11. Secretary, Managing Committee, Shillong Academy Sec School (Govt. Aided).
12. Secretary, Governing Body, Women's College (Govt. Aided).
13. Treasurer, Education India Trust, Shillong.
14. Treasurer, The Red Oleanders, Shillong.
15. Member, Aman Movement, The National Ragging Prevention Program of UGC.
16. Permanent Member, International Forum for Excellence in Higher Education, New Delhi.
17. Member, Akshya Patra Foundation.

**Participation / contribution of teachers to the academic activities including teaching, consultancy and research 2010-2015**

1. Resource Person in Chemistry Teaching at NCERT, NER, Shillong.
2. Resource Person in Chemistry in capacity Building Program for Class XII Students.
3. Resource Person in Chemistry in IAS Training Program, MATI, Govt. Megh.
4. Resource Person for remedial Teaching in Chemistry sponsored by UGC at St. Edmund's College.
5. Member, Selection Committee, Bioinformatics & Biotech Hub, SEC.

**Participated in National Seminar/ Workshop/refresher and Orientation Courses**

1. Coordinator (Working Committee) of National Seminar at UGC, Barapani, Organized by MCPC & ICF- Nov, 2011.
2. Participated in National Level Seminar at IIT, Delhi-2012.
3. Represented College at UGC, Delhi, for interface meeting on Career Oriented course.
4. Represented College at UGC, Delhi, for interface meeting on GDA under XI plan- Mar. 2012.
5. Attended Coordinator's Review meeting at Khalsa College, New Delhi for Star College Scheme on June 2012.
6. Attended Biotech Hub Review meeting at College of Fisheries, Lembucherra, Agartala on Oct. 2012.
7. Attended Coordinator's meeting Review at Ruia College, Mumbai for Star College Scheme on Aug. 2013.
8. Represented College at DBT Head Office, CGO complex for Star College Scheme on Feb. 2014.
9. Attended Coordinator's meeting at Nagaland University for Biotech Hub Monitoring meet on Nov. 2014.

10. Attended Coordinator's meeting at NRC Mithun, Dimapur, and Nagaland for Biotech Hub Monitoring meet on Jun. 2015.

11. Attended Coordinator's meeting on Bioinformatics at Tripura Univ. Tripura on Nov. 2015.



**Dr. Prashanta Sarkhel**  
*Associate Professor,*  
Ph. D (Inorganic Chemistry)

Years of experience: 21

Publications in National & International journals: 16

Major area in teaching: General Chemistry, Coordination Chemistry, Organometallics, Bio-inorganic Chemistry.



**Mr. Subhrajyoti Choudhury**  
*Associate Professor,*  
M.Sc (Organic Chemistry)

Years of experience: 19

Major area in teaching: General organic chemistry, Biomolecules, Carbohydrate Chemistry.

### **Ms. Iadeishisha Kharbangar**

*Assistant Professor,*  
M.Sc. (Organic Chemistry)

Years of experience: 1

Publications in National & International journals: 5

#### **List of Publication:**

1. Tetrahedron Letters, **2011, 52, 3228-3231.**
2. International Journal Of Organic Chemistry, **2012, 2, 282-286.**
3. Journal Of Organic Chemistry, **2012, 77, 707-712.**
4. European Journal Of Organic Chemistry, **2012, 320-328.**
5. Organic Preparation and Procedures International, **2013, 45, 253-303.**

Major area in teaching: Physical and Organic Chemistry

### **Departmental Activities:**

#### **❖ 2016-2017:**

1. Talk by Shri Ranjan Chatterjee, IAS (Retd), Expert Member, Principal Bench National Green Tribunal, New Delhi on "Clean and Green India- North-East Perspective" jointly organised by Department of Chemistry and Department of Biotechnology on 23<sup>rd</sup> May, 2016.
2. Farewell cum Felicitation to outgoing 3<sup>rd</sup> Year students of 2016 batch on 18<sup>th</sup> June, 2016.

3. Participation in the Felicitation Programme for 3<sup>rd</sup> Year passed out batch arranged by the College on 23<sup>rd</sup> June, 2016.
4. Department of Chemistry, St. Edmund's College was represented in the Guest Lectures in St. Anthony's College organised as a part of the Platinum Jubilee Celebration on 21<sup>st</sup> July, 2016.
5. Guest Lectures on Nanotechnology by Dr. A. Bhattacharjee, NIT, Meghalaya and Dr. A. K. Pal, NEHU on 23<sup>rd</sup> July, 2016.
6. Guest lecture on NMR spectroscopy and MRI by Dr. Debashish Dey
7. Teachers' Day celebration on 5<sup>th</sup> Sept. 2016.
8. Inter-college science exhibition, Synod College on 18<sup>th</sup> Nov' 2016

❖ **2015-2016:**

1. Student seminar for the third year students held on 29-30<sup>th</sup> Nov 2015.
2. Exhibition entitled "*Fun with Chemistry*" on the 28<sup>th</sup> Nov 2015.
3. Inter-department Exhibition Organised by DBT on the 26-28<sup>th</sup> Nov 2015. The students of the Department presented two Models and two Charts and also took part in Debate, Quiz competition, Essay Competition as well in Blood Donation Camp.
4. Guest Lecture on Supra molecular self-assemblies as functional Nano materials by Dr. Randhir Rai (IIT Madras) on the 12<sup>th</sup> Oct 2015.
5. Teachers Day Celebration on the 5<sup>th</sup> Sep 2015.
6. Participation of Students in various programmes outside the college-
  - (i) **Shillong College**, National Seminar on "*Exploring recent Advances in Chemistry in service of Mankind*" on the 30<sup>th</sup>- 31<sup>st</sup> July 2015.
  - (ii) **St. Anthony's College**, Platinum Jubilee National Workshop on Petroleum and Polymer Technology on the 22<sup>nd</sup> and 23<sup>rd</sup> Sept 2015.

**N.E.H.U.** – National Science Day Observed on the 26-27<sup>th</sup> Feb 2016.

**Extra Courses Conducted by the Department Under DBT:**

**Practicals:**

1. Demonstration on Preparation of soaps from Vanaspati (2009-2010).
2. Demonstration of Green Chemistry Reactions(2010-2011)
3. Demonstration on identification of Adulterants in Food Stuff (2011-2012).
4. Demonstrations on Preparation of silver and copper nanoparticles using plant extract (2012-2013).
5. Demonstrations on estimation of Glucose (2013-2014).
6. Demonstrations on recovery on Iron (II) Sulphate from waste Water from Kipp's Apparatus used for production of Hydrogen Sulphide gas (2014-2015).