

Department Activities (2014-2021)

2014

A. Co-curricular activities of the Department (Lectures, Workshops, Talks, Seminars, etc) held throughout the year:

1. **Name of the Programme:** *Remedial Programme in Chemistry Practicals.*
2. **Dates:** *26th April, 1st and 3rd May 2014.*
3. **Resource Persons/Project guides:** *Dr. M. Das Gupta, Dr. E. Karim and Dr. A. Snaitang, Dept of Chemistry, St. Anthony's College.*
4. **Number of participants:** *58 (Fifty-eight)*
5. **Learning Outcomes:** *Improved skill in Chemistry Practical Techniques together with theoretical knowledge of the practical experiments.*

1. **Name of the Programme:** *Orientation Programme in Chemistry.*
2. **Dates:** *5th June, 2014.*
3. **Resource Persons/ Project guides:** *Dr. M. Das Gupta and Dr. E. Karim, Dept of Chemistry, St. Anthony's College.*
4. **Number of participants:** *42 (Forty two)*
5. **Learning Outcomes:** *Students were imparted techniques of remembering all fundamental principles in chemistry.*

1. **Name of the Programme:** *Intradepartmental Chemistry Students' Seminar*
2. **Dates:** *1st November, 2014.*
3. **Resource Persons/ Project guides:** *All Faculty Members of the Department*
4. **Number of participants:** *23(Twenty three) presenters and 50 participants*
5. **Learning Outcomes:** *The program was able to introduce the students on topics related to research methodologies and encourage the students to do research in chemistry.*

1. **Name of the Programme:** *Inter College Chemistry Students' Seminar*
2. **Dates:** *8th November, 2014.*
3. **Objectives of the Programme:** *To provide opportunity to the students to expose their hidden talents*
4. **Topics selected for the Programme:** *Various topics relevant to B. Sc Honours course*
5. **Number of participants:** *16 (Sixteen) presenters and 130 participants*
6. **Achievement of the programme:** *The programme was able to introduce among students the research methodologies and encourage them to do research in Chemistry.*

1. **Name of the Programme:** *S. N. Pal Memorial Lecture.*
2. **Dates:** *8th November, 2014.*
3. **Objective of the Programme:** *To create awareness among the students about the life and contribution of Prof. S. N. Pal and about The Emergence of Nanoscience in the Field of Chemistry and Its Applications.*
4. **Theme selected for the Programme:** *Nanochemistry - techniques and applications.*
5. **Resource Person:** *Dr. D. P. S Negi, Assistant Professor
Department of Chemistry, NEHU, Shillong.*
6. **Number of participants:** *Around 140*
8. **Achievement of the programme:** *The students were exposed to nanochemistry and its applications.*

B. EXTRA-CURRICULAR ACTIVITIES OF THE DEPARTMENT HELD DURING THE YEAR:

1. **Name of the activity:** *Field Field Visit to Guwahati Oil Refinery*
2. **Date:** *4thDecember, 2014*
3. **Objectives of the programme:** *Exposure of the students to chemical industries and job opportunities.*
4. **Number of participants:** *30 (Thirty)*
5. **Direct and Indirect benefit of the activity:** *Exposure of the students to chemical industries, practical demonstrations and employment opportunities in such industries.*

2015

A. Co-curricular activities of the Department (Lectures, Workshops, Talks, Seminars, etc) held throughout the year:

1. **Name of the Programme:** *Remedial Programme in Chemistry Practicals.*
2. **Dates:** *16th, 17th and 18th April, 2015.*
3. **Resource Persons/ Project guides:** *All Faculty members of the Department*
4. **Number of participants:** *65 (Sixty five)*
5. **Learning Outcomes:** *Improved skill in Chemistry Practical Techniques together with theoretical knowledge of the practical experiments.*

1. **Name of the Programme:** *Platinum Jubilee Inaugural Lecture.*
2. **Dates:** *13th June, 2015.*
3. **Resource Persons:**
(a) Prof. B. Myrboh
Pro Vice Chancellor, NEHU, Shillong.
(b) Prof. C. R. Bhattacharjee
Department of Chemistry,
Assam University.
(c) Prof. Jayashree Rout
Department of Ecology and Environmental
Science, Assam University.
4. **Number of participants:** *200 (Two hundred)*
5. **Learning Outcomes:** *The participants were highly enriched in the different branches of chemistry.*

1. **Name of the Programme:** *Platinum Jubilee National Workshop on Petroleum and Polymer Technology.*
2. **Dates:** *22nd and 23rd September 2015.*
3. **Resource Persons:**
 - (a) Dr. Hare Krishna Deka, Central Institute of Plastics Engineering and Technology, Guwahati*
 - (b) Shri Abhijit Chakraborty, Central Institute of Plastics Engineering and Technology, Guwahati*
 - (c) Dr. Mukesh Saxena Pro-Vice Chancellor, UTM, Shillong*
 - (d) Dr. Satyendra Bhardwaj, PragJyotishpur College, Guwahati.*
 - (e) Shri P. K. Saloi Senior Officer (H,S&E), Indian Oil Company Ltd, Guwahati.*
 - (f) Shri Chimmoy Sarma, Asst. Professor, UTM, Shillong*
 - (g) Shri Riku Dutta Asst. Professor, UTM, Shillong*
 - (h) Shri Mahaveer Surana Deputy Manager Process, Guwahati Refinery.*
4. **Number of participants:** *200 (Two hundred)*
5. **Learning Outcomes:** *The programme was able to expose the participants to chemical industries and employment opportunities in such industries.*

1. **Name of the Programme:** *Platinum Jubilee Orientation Programme in Chemistry.*
2. **Dates:** *10th July, 2015.*
3. **Resource Persons/ Project guides:** *Dr. M. Das Gupta, Dept of Chemistry, St. Anthony's College.*
4. **Number of participants:** *42 (Forty two)*
5. **Learning Outcomes:** *Students were imparted techniques of remembering all fundamental principles in chemistry.*

1. **Name of the Programme:** *Platinum Jubilee Guest Lecture on "Water Analysis".*
2. **Dates:** *7th November, 2015.*
3. **Resource Persons:** *Dr. Sonali Saha Fullbright Fellow, Touro College, Miami, Florida, USA*
4. **Number of participants:** *80 (Eighty)*
5. **Learning Outcomes:** *The programme had enriched the level of knowledge of the students and created innovations in them about the various analysis in chemistry.*

1. **Name of the Programme:** *Platinum Jubilee Intradepartmental Chemistry Students' Seminar*
2. **Dates:** *7th November, 2015.*
3. **Resource Persons/ Project guides:** *All Faculty Members of the Department*
4. **Number of participants:** *22(Twenty two) presenters and 55 participants*
5. **Learning Outcomes:** *The program was able to introduce among students the research methodologies and encourage them to do research in chemistry.*

1. **Name of the Programme:** *Platinum Jubilee National Workshop on Integrated Dairy & Smart Hybrid Energy System*
2. **Dates:** *10th November, 2015.*
3. **Resource Persons:** *Dr. Manish Kumar, Assistant Professor, Dept of Electrical Engineering, IIT (BHU), Varanasi, India.*
4. **Number of participants:** *120 (One hundred twenty)*
5. **Learning Outcomes:** *The programme was able to create awareness among the participants on the importance of Smart Hybrid Energy System.*

1. **Name of the Programme:** *Platinum Jubilee Inter College Chemistry Students' Seminar*
2. **Dates:** *14th November, 2015.*
3. **Objectives of the Programme:** *To provide opportunity to the students to expose their hidden talents.*
4. **Topics selected for the Programme:** *Various topics relevant to B.Sc Honours course.*
5. **Number of participants:** *16 (Sixteen) presenters and 120 participants*
6. **Feedback from participants:** *The student participants were very happy to get a chance to expose their hidden talents in the seminar.*
8. **Achievement of the programme:** *The programme was able to introduce among students the research methodologies and encourage them to do research in Chemistry.*

1. **Name of the Programme:** *S. N. Pal Memorial Lecture.*
2. **Dates:** *8th November, 2015.*
3. **Objective of the Programme:** *To create awareness among the students about the life and contribution of Prof. S. N. Pal and about Water Treatment Techniques.*
4. **Theme selected for the Programme:** *Water Treatment - techniques and applications.*
5. **Resource Person:** *Dr. Sonali Saha, Fullbright Fellow, Touro College, Miami, Florida, USA*
6. **Number of participants:** *120 (One hundred twenty)*
7. **Feedback from participants:** *Participants found the programme very interesting and fruitful.*
8. **Achievement of the programme:** *The students participants were exposed to water treatment techniques and its applications.*

B. Extra-curricular activities of the Department held during the year:

1. **Name of the activity:** *Platinum Jubilee Study Tour to RRTC, Umran.*
2. **Date:** *11thDecember, 2015*
3. **Objectives of the programme:** *Exposure of the students to practical knowledge and chemical process to poultry and farming industry.*
4. **Site Selected for the study:** *Rural Resource and Training Centre, Umran, Meghalaya.*
5. **Number of participants:** *75 (Seventy five)*
6. **Direct and Indirect benefit of the activity:** *The Tour was able to expose the students to poultry and farming industry and to impart practical knowledge about chemical process and employment opportunities in such industries.*

A. Co-curricular activities of the Department (Lectures, Workshops, Talks, Seminars, etc) held throughout the year:

1. **Name of the Programme:** *Platinum Jubilee Refresher Programme in Chemistry Practicals.*
2. **Dates:** 29th and 31st March, 2016.
3. **Resource Persons:** *All Department Professors.*
4. **Number of participants:** 65 (*Sixty five*)
5. **Learning Outcomes:** *Improved skill in Chemistry Practical Techniques together with theoretical knowledge of the practical experiments.*

1. **Name of the Programme:** *Concluding Function of the Year Long Platinum Jubilee Celebration.*
2. **Dates:** 21st July, 2016.
3. **Memorial Lectures:** 1st Prof. S. C. Sinha Memorial Lecture and
1st Dr. B. L. Marwein Memorial Lecture
4. **Resource Persons:** (a) *Prof. K. Ismail*
Department of Chemistry,
NEHU, Shillong.
(b) *Dr. R. Nongkhlaw*
Department of Chemistry,
NEHU, Shillong.
5. **Number of participants:** 200 (*Two hundred*)
6. **Concluding Remarks:** *The Department successfully concluded the yearlong celebration of the Platinum Jubilee Celebrations.*

1. **Name of the Programme:** *Farewell Function to the Head of the Department.*

2. **Date:** *30th July, 2016.*

A Farewell function to the Head of the Department, Dr. Manash Das Gupta, was organised by the Department. The program was attended by all Professors and students of the department.

1. **Name of the Programme:** *Intradepartmental Chemistry Students' Seminar*

2. **Date:** *9th November, 2016.*

3. **Resource Persons/ Project guides:** *All Faculty Members of the Department*

4. **Number of participants:** *23(Twenty three) presenters and 50 participants*

5. **Learning Outcomes:** *The program was able to introduce the students on topics related to research methodologies and encourage the students to do research in chemistry.*

1. **Name of the program:** *International Conference on Chemistry and its Diversities – 2016 (ICCD – 16).*

2. **Date:** *24th and 25th November, 2016.*

A two-day **International Conference on Chemistry and its Diversities – 2016 (ICCD – 16)** was held on **24th and 25th November, 2016**. The Conference was inaugurated by Chief Guest, **Shri Ronnie V. Lyngdoh, Hon'ble Minister of Urban Affairs, etc. Government of Meghalaya.**

The Conference dwelt at length on the achievements and research innovations in the diverse fields of Chemistry.

Resource Persons:

1. Name: Dr. Yasufumi Kobayashi
University: Gifu University, Japan
Topic: Acidity of the soil

2. Name: Prof S.K. Ray
University: Tezpur University,
Tezpur
Topic: ATP and ADP

3. Name: Prof P.J. Das
University: Gauhati University
Topic: Ionic liquids.

4. Name: Prof B. K. Das
University: Gauhati University
Topic: Role of Research in Under
graduate studies

5. Name: Prof R.C. Deka
University: Tezpur University
Topic: DNA

6. Name: Prof C. R. Bhattacharjee
University: Assam University
Topic: Assembly of coordination
compounds

The Conference also had a **Poster Session** where **Research Scholars from NEHU**, presented their posters.

The Conference was participated by teachers from other colleges around Shillong and from outside the city also, and also by the Chemistry Honours students of the college.

The Conference was concluded by a **Valedictory Session** where **Shri Osmand Nongbri, Managing Director of Meghalaya Cooperative Apex Bank Ltd**, was the **Chief Guest**.

Achievement of the programme:

The presentations and interaction during the two-day Conference had been very appropriate and fruitful. Participants found the Conference extremely fruitful in terms of their ongoing and future research work.

B. Extra-curricular activities of the Department held during the year:

1. Name of the activity: *Field Trip - cum - Picnic.*
2. Date: *11th December, 2017*
3. Objectives of the programme: *Study of some Physical quantities of water samples.*
4. Site selected for the visit: *Mawlyngbna.*
5. People interviewed: *Some residents of the locality.*
6. Number of participants: *60 (sixty)*
7. Information gathered: *Most of water samples are from natural sources.*
8. Observations made: *Simple analyses were carried out on the different water samples collected making use of all the facilities available in the Department Lab. Some interesting results were obtained which require more sophisticated facilities for verification of results.*
9. Direct and Indirect benefit of the activity: *Exposure of students to the real situation of water pollution, its causes, outcome and protection of water bodies.*

A. Co-curricular activities of the Department (Lectures, Workshops, Talks, Seminars, etc) held throughout the year:

1. **Name of the Programme:** *Intradepartmental Students' Seminar.*
2. **Dates:** *24th March, 2018*
3. **Objectives of the Programme:** *To encourage the 6th Semester Chemistry Honours students to conduct project reports based on literature survey, under the guidance of faculty and make a presentation at the seminar.*
4. **Topics selected for the Programme:** *Various topics relevant to B. Sc Honours course were allotted to different students.*
5. **Resource Persons/ Project guides:** *All Faculty Members of the Department*
6. **Number of participants:** *21(Twenty one) presenters and 50 participants*
7. **Achievement of the programme:** *The programme was able to introduce among students the research methodologies and encourage them to do research in Chemistry.*

1. **Name of the Programme:** *S. N. Pal Memorial Lecture.*
2. **Dates:** *7th April, 2018*
3. **Objective of the Programme:** *To create awareness among the students about the life and contribution of Prof. S. N. Pal and about Conservation of Energy.*
4. **Theme selected for the Programme:** *Energy Conservation.*
5. **Resource Person:** *Mr. Samar Hazarika
Assistant Professor
Department of Engineering Energy
NEHU, Shillong.*
6. **Number of participants:** *Around 120*
7. **Achievement of the programme:** *The programme was of great benefit to all the participants. The students were exposed to Green energy and applications.*

1. **Name of the Programme:** *Inter College Chemistry Students' Seminar.*
2. **Dates:** *7th April, 2018*
3. **Objectives of the Programme:** *To provide opportunity to the students to expose their hidden talents*
4. **Topics selected for the Programme:** *Various topics relevant to B.Sc Honours course.*
5. **Chief Guest and Chairperson:** *Dr. M. Das Gupta*
Designation: Former Head, Dept. of Chemistry
Institution: St. Anthony's College, Shillong
Area of expertise: Inorganic chemistry
6. **Number of participants:** *16 presenters and 150 participants*
7. **Feedback from participants:** *The student participants were very happy to get a chance to expose their hidden talents in the seminar.*
8. **Achievement of the programme:** *The programme was able to introduce among students the research methodologies and encourage them to do research in Chemistry.*

1. **Name of the Programme:** *Orientation Programme in Chemistry.*
2. **Dates:** *4th August, 2018.*
3. **Resource Persons/ Project guides:** *Dr. A. Snaitang, Dept of Chemistry, St. Anthony's College.*
4. **Identify states/regions/countries from where the participants have come from:** *B. Sc First Semester Chemistry Honours Students of the college.*
5. **Number of participants:** *60 (Sixty)*
6. **Learning Outcomes:** *Students were imparted techniques of remembering all fundamental principles in chemistry.*

B. Extra-curricular activities of the Department held during the year:

1. **Name of the activity:** *Field Trip - cum - Picnic.*
2. **Date:** *31thDecember, 2018*
3. **Objectives of the programme:** *Study of some Physical quantities of water samples.*
4. **Site selected for the visit:** *Mawphanlur.*
5. **People interviewed:** *Some residents of the locality.*
6. **Number of participants:** *60 (sixty)*
7. **Information gathered:** *Most of water samples are from natural sources.*
8. **Observations made:** *Simple analyses were carried out on the different water samples collected making use of all the facilities available in the Department Lab.*

Direct and Indirect benefit of the activity: *Exposure of students to the real situation of pollution, its causes, outcome and protection of environment.*

Co-curricular activities of the Department (Lectures, Workshops, Talks, Seminars, etc) held throughout the year:

1. **Name of the Programme:** *Intradepartmental Students' Seminar.*
2. **Dates:** *12th April, 2019*
3. **Objectives of the Programme:** *To encourage the 6th Semester Chemistry Honours students to conduct project reports based on literature survey, under the guidance of faculty and make a presentation at the seminar.*
4. **Topics selected for the Programme:** *Various topics relevant to B.Sc Honours course were allotted to different students.*
5. **Resource Persons/ Project guides:** *All Faculty Members of the Department*
6. **Number of participants:** *All 6th semester students of the Depoartment*
7. **Identify states/regions/countries from where the participants have come from:** *Chemistry Honours Students of the college.*
8. **Feedback from participants:** *The student participants were very happy to get a chance to expose their hidden talents in the seminar.*
9. **Achievement of the programme:** *The programme was able to introduce among students the research methodologies and encourage them to do research in Chemistry.*
10. **Self-evaluation of the programme:** *The programme was of great benefit for all the students of the department.*

1. **Name of the Programme:** *S. N. Pal Memorial Lecture.*
2. **Dates:** *18th April, 2019*
3. **Objective of the Programme:** *To create awareness among the students about the life and contribution of Prof. S.N.Pal and about Liquid Crystals*
4. **Theme selected for the Programme:** *Liquid Crystals*
5. **Resource Person:** *Prof. Ayon Bhattacharjee.
Professor and Dean (Research and Consultancy)
Department of Physics National Institute of
Technology Shillong, Meghalaya.*
6. **Number of participants:** *Around 120*
7. **Identify states/regions/countries from where the participants have come from:** *Teachers and chemistry students from different colleges in Shillong.*
8. **Feedback from participants:** *Participants found the programme very interesting and fruitful.*
9. **Achievement of the programme:** *The students were exposed to Liquid Crystals and their applications.*
10. **Self-evaluation of the programme:** *The programme was of great benefit to all the student participants as well as to the teachers.*

Extra-curricular activities of the Department held during the year:

1. **Name of the activity:** *Field trip*
2. **Date:** *20th March, 2019*
3. **Objectives of the programme:** *Exposure of the students to practical knowledge and chemical process of the effects of pollution.*
4. **Site selected for the visit:** *Meghalaya State Pollution Control Board.*
5. **Number of participants:** *30*
6. **Information gathered:** *Analysis of Air, water and soil pollutants.*
7. **Direct and Indirect benefit of the activity:** *Exposure of students to the real situation of pollution, its causes, outcome and protection.*

A. Co-curricular activities of the Department (Lectures, Workshops, Talks, Seminars, etc) held throughout the year:

1. **Name of the Programme:** *Online Intradepartmental Students' Seminar.*
2. **Dates:** *17th September, 2020 via Zoom Platform*
3. **Objectives of the Programme:** *To encourage the 6th Semester Chemistry Honours students to conduct project reports based on literature survey, under the guidance of faculty and make a presentation at the seminar.*
4. **Topics selected for the Programme:** *Various topics relevant to B. Sc Honours course were allotted to different students.*
5. **Resource Persons/ Project guides:** *All Faculty Members of the Department*
6. **Number of participants:** *All 6th semester students of the Depoartment*
7. **Feedback from participants:** *The student participants were very happy to get a chance to expose their hidden talents in the seminar.*
8. **Achievement of the programme:** *The programme was able to introduce among students the research methodologies and encourage them to do research in Chemistry.*

1. **Name of the Programme:** *Online S. N. Pal Memorial Lecture Lecture.*
2. **Dates:** *11th December, 2020.*
3. **Objective of the Programme:** *To create awareness among the students about the life and contribution of Prof. S.N.Pal and about Nanochemistry.*
4. **Theme selected for the Programme:** *Nanomaterials*
5. **Resource Person:** *Dr. Tarun Kumar Misra
Associate Professor & Head
Dept. of Chemistry, NIT, Agartala.*
6. **Number of participants:** *150*

7. Identify states/regions/countries from where the participants have come from: *Teachers and chemistry students from different colleges in Shillong.*
8. Feedback from participants: *Participants found the programme very interesting and fruitful.*
9. Achievement of the programme: *The students were exposed to nanochemistry techniques and applications.*
10. Self-evaluation of the programme: *The programme was of great benefit to all the student participants as well as to the teachers.*

A. Co-curricular activities of the Department (Lectures, Workshops, Talks, Seminars, etc) held throughout the year:

1. **Name of the Programme:** *Online Intradepartmental Students' Seminar.*
2. **Dates:** *30th June, 2021 via Zoom Platform*
3. **Objectives of the Programme:** *To encourage the 6th Semester Chemistry Honours students to conduct project reports based on literature survey, under the guidance of faculty and make a presentation at the seminar.*
4. **Topics selected for the Programme:** *Various topics relevant to B.Sc Honours course were allotted to different students.*
5. **Resource Persons/ Project guides:** *All Faculty Members of the Department*
6. **Number of participants:** *All 6th semester students of the Depoartment*
7. **Feedback from participants:** *The student participants were very happy to get a chance to expose their hidden talents in the seminar.*
8. **Achievement of the programme:** *The programme was able to introduce among students the research methodologies and encourage them to do research in Chemistry.*

1. **Name of the Programme:** *One-day National webinar on “Natural Products: Their Importance and Applications”.*
2. **Dates:** *27th November, 2021.*
3. **Objective of the Programme:** *To create awareness among the participants about the importance and applications of natural products.*
4. **Theme selected for the Programme:** *Natural Products*
5. **Resource Persons:** Name: Dr. Jagat C Borah
*Associate Professor
Institute of Advanced Study in Science and Technology, Guwahati, Assam – 781035*

Dr. J. S. Momo Hmungshel A
*Scientist
Natural Products and Medicinal Chemistry
Division, CSIR – Indian Institute of Integrative Medicine, Canal road, Jammu – 180001*
6. **Number of participants:** 150
7. **Identify states/regions/countries from where the participants have come from:** *Teachers and chemistry students from different colleges in Shillong and outside.*
8. **Feedback from participants:** *Participants found the programme very interesting and fruitful.*
9. **Achievement of the programme:** *The participants were exposed to the importance and applications of natural products in our daily life.*

ANNUAL INTER-COLLEGE STUDENTS' SEMINAR & 5TH S.N. PAUL MEMORIAL LECTURE: 7TH
APRIL, 2018.



