

# **CHEMISTRY DEPARTMENTAL ACTIVITIES FOR THE YEAR** **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:** *26<sup>th</sup> April, 1<sup>st</sup> and 3<sup>rd</sup> 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.*

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- 1. Name of the Programme:** *Orientation Programme in Chemistry.*
- 2. Dates:** *5<sup>th</sup> 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.*

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- 1. Name of the Programme:** *Intradepartmental Chemistry Students' Seminar*
- 2. Dates:** *1<sup>st</sup> 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.*

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- 1. Name of the Programme:** *Inter College Chemistry Students' Seminar*
- 2. Dates:** *8<sup>th</sup> 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 cou*
- 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.*

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- 1. Name of the Programme:** *S.N.Pal Memorial Lecture.*
- 2. Dates:** *8<sup>th</sup> 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.*

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**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:** *4<sup>th</sup>December, 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.*

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**CHEMISTRY DEPARTMENTAL ACTIVITIES FOR THE YEAR**  
**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:** *16<sup>th</sup>, 17<sup>th</sup> and 18<sup>th</sup> 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.*

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1. **Name of the Programme:** *Platinum Jubilee Inaugural Lecture.*
2. **Dates:** *13<sup>th</sup> 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.*

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- 1. Name of the Programme:** *Platinum Jubilee National Workshop on Petroleum and Polymer Technology.*
- 2. Dates:** *22<sup>nd</sup> and 23<sup>rd</sup> 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.*

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1. **Name of the Programme:** *Platinum Jubilee Orientation Programme in Chemistry.*
2. **Dates:** *10<sup>th</sup> 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.*

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1. **Name of the Programme:** *Platinum Jubilee Guest Lecture on "Water Analysis".*
2. **Dates:** *7<sup>th</sup> 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.*

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1. **Name of the Programme:** *Platinum Jubilee Intradepartmental Chemistry Students' Seminar*
2. **Dates:** *7<sup>th</sup> 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.*

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**1. Name of the Programme:** *Platinum Jubilee National Workshop on Integrated Dairy & Smart Hybrid Energy System*

**2. Dates:** *10<sup>th</sup> 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.*

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**1. Name of the Programme:** *Platinum Jubilee Inter College Chemistry Students' Seminar*

**2. Dates:** *14<sup>th</sup> 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.*

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1. Name of the Programme: *S.N.Pal Memorial Lecture.*
2. Dates: *8<sup>th</sup> 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.*

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**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: *11<sup>th</sup> December, 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.*

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**CHEMISTRY DEPARTMENTAL ACTIVITIES FOR THE YEAR**  
**2016**

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: *29<sup>th</sup> and 31<sup>st</sup> 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.*

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1. Name of the Programme: *Concluding Function of the Year Long Platinum Jubilee Celebration.*
2. Dates: *21<sup>st</sup> July, 2016.*
3. Memorial Lectures: *1<sup>st</sup> Prof. S. C. Sinha Memorial Lecture and 1<sup>st</sup> 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.*

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

**2. Date:** *30<sup>th</sup> 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.*

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

**2. Date:** *9<sup>th</sup> 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.*

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

**2. Date:** *24<sup>th</sup> and 25<sup>th</sup> 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 Reseach 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.*

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## **Chemistry Departmental Activities for the Year 2017-2018**

**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:** *24<sup>th</sup> March, 2018*
- 3. Objectives of the Programme:** *To encourage the 6<sup>th</sup> 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.*

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- 1. Name of the Programme:** *S.N.Pal Memorial Lecture.*
- 2. Dates:** *7<sup>th</sup> 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.*

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1. Name of the Programme: *Inter College Chemistry Students' Seminar.*
2. Dates: *7<sup>th</sup> 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 programmewas able to introduce among students the research methodologies and encourage them to do research in Chemistry.*

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1. Name of the Programme: *Orientation Programme in Chemistry.*
2. Dates: *4<sup>th</sup> 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.*

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

1. Name of the activity: *Field Trip - cum - Picnic .*  
Date: *11<sup>th</sup>December, 2017*  
Objectives of the programme: *Study of some Physical quantities of water samples.*  
Site selected for the visit: *Mawlyngbna.*  
People interviewed: *Some residents of the locality.*  
Number of participants: *60 (sixty)*  
Information gathered: *Most of water samples are from natural sources.*

**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.*

**6. 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.*

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1. Name of the activity: *Field Trip - cum - Picnic .*  
Date: *31<sup>th</sup>December, 2018*  
Objectives of the programme: *Study of some Physical quantities of water samples.*  
Site selected for the visit: *Mawphanlur.*  
People interviewed: *Some residents of the locality.*  
Number of participants: *60 (sixty)*  
Information gathered: *Most of water samples are from natural sources.*

**Observations made:**

*Simple analyses were carried out on the different water samples collected making use of all the facilities available in the Department Lab.*

**7. Direct and Indirect benefit of the activity:**

*Exposure of students to the real situation of pollution, its causes, outcome and protection of environment.*

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