Chemistry Department Write-up

Number of teaching posts:

| Category | Sanctioned | Filled |
|----------------------|---|--------|
| Professors | NIL, since there is no promotion to this rank in the state for colleges | NIL |
| Associate Professors | 7 | 2 |
| Asst. Professors | | 5 |

Faculty Strength and Support Staffs

| Number of sanctioned posts and current status | | | | | | | | |
|---|----------------------------|---|---|--|--|--|--|--|
| Serial No. | To. Post Sanctioned Filled | | | | | | | |
| 1 | Teaching Faculty | 7 | 7 | | | | | |
| 2 | Laboratory Assistants | 2 | 2 | | | | | |

Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt/Ph.D. / M. Phil. etc.,)

| Name | Qualific | Designation | Specialization | No. of | Date of | Contact |
|-----------------------|----------|-------------|----------------|------------------|------------|------------|
| | ation | | | Years of | Joining | No. |
| | | | | Service | | |
| Shri Isaac W. Momin | MSc | Associate | Organic | 25 years | 08/11/1993 | 9436114971 |
| | | Professor | Chemistry | | | |
| Smt.Donme L.A. | MSc | Associate | Physical | 22 years | 20/02/1996 | 9436316360 |
| sangma | | Professor | Chemistry | | | |
| Shri Bithingkon G. | MSc, | Assistant | Inorganic | 10 years | 24/11/2008 | 9436995524 |
| Momin | NET | Professor | Chemistry | | | |
| Dr. Kiewshaphrang | MSc, | Assistant | Physical | 10 years | 02/03/2009 | 9612001485 |
| Kharnaior | NET | Professor | Organic | | | |
| | Ph.D | | Chemistry | | | |
| Miss Lisa Valerie K. | MSc,NET | Assistant | Analytical | 2 (as part time) | 24/09/2018 | 8413026482 |
| Marak | | Professor | Chemistry | | | |
| Shri. Smarling Suting | MSc,NET | Assistant | Physical | 2months | 01/10/2018 | 8974366083 |
| | | Professor | Chemistry | | | |
| Dr. Pynsakhiat Miki | MSc/SLE | Assistant | Physical | 2months | 01/10/2018 | 9863018832 |
| Gashnga | T/PhD | Professor | Chemistry | | | |

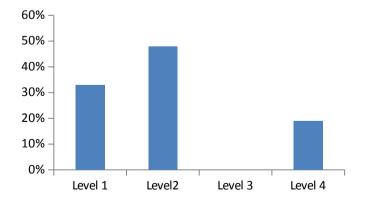
Faculty participation in Institutional Responsibility and Extension Activities

| Name of the Faculty | Programme involved | Year |
|-----------------------------|--|---------------------|
| Shri. Isaac W. Momin | Member UGC Committee | 2014 (Only) |
| | Member Purchase Committee | 2014 (Only) |
| | Convener UGC | 2016 till date |
| | Chairman Examination Committee | 2015-2016 |
| | Convener Purchase committee | 2016 till date |
| Smt. Donme L. A. Sangma | Convener NAAC Committee Criterion-II | 2014 till date |
| Shri Bithingkon G. Momin | Resource Person for Workshop on Recent Trends in | 4-9 July2016, |
| | Teaching Science. | 12-17 June 2017, |
| | | 16-21April 2018 |
| | Programme Officer, NSS, Tura Govt. College | 2009-2016 |
| | Member Examination Committee | 2010-2011 |
| | | 2011-2012 |
| | | 2012-2013 |
| | | 2013-2014 |
| | | 2014-2015 |
| | IGNOU Academic Counsellor for | |
| | BDP-Programme Tura Govt. College study centre | 2014 till date |
| | Examination superintendent-NIELIT (MGTRA)-Tura | 2017 -2018 |
| | Member, NAAC Steering Committee | Aug 2018 till date |
| Dr. Kiewshaphrang | Member Examination Committee | 2009-2010 |
| Kharnaior | Member, NAAC Committee Criterion-I | till date |
| | Member, IQAC | 2016 – 2018 |
| | Member Committee of redistribution of marks in the syllabus and revision of syllabus | Oct. 2017 till date |
| Miss Lisa Valerie K. Marak | Member, NAAC Committee Criterion-II | Sep. 2018 till date |
| | Member, NAAC Committee Counselling cells | Sep. 2018 till date |
| Shri. Smarling Suting | Member, IQAC | Sep. 2018 till date |
| _ | Member, NAAC Committee Counselling cells | Sep. 2018 till date |
| Dr. Pynsakhiat Miki Gashnga | Member, NAAC Committee Criterion-II | Sep. 2018 till date |
| | Member, NAAC Committee Counselling cells | Sep. 2018 till date |
| | Member, IQAC | Sep. 2018 till date |

Faculty Workload Data

Total Number of working days as per academic calender - 224

| Sl. | Name | Designation | Num | Total | Numb | Total | Number | Number of | Total | Total |
|-----|------------|-------------|-------|-------|------------|---------|------------|---------------|--------------|---------|
| N | | | ber | num | er of | Number | hours on | working | Number of | Numbe |
| 0. | | | of | ber | workin | of | administra | hours spent | hours spent | r of |
| | | | class | of | g day | working | tive /exam | on other | on other | workin |
| | | | es | casu | per | hours | related | institutional | responsibili | g hours |
| | | | per | al | acade | per | work per | responsibili | ties other | per |
| | | | wee | leav | mic | academi | academic | ties per | than | academ |
| | | | k as | es | year | c year | year | academic | academic | ic year |
| | | | per | | | (A) | (B) | year (C) | (B + C = D) | (A+D) |
| | | | routi | | | | | | | |
| | | | ne | | | | | | | |
| 1 | Shri Isaac | Associate | 15 | 3 | 221 | 497 | 205 | 200 | 405 | 902 |
| | W. Momin | Professor | | | | | | | | |
| 2 | Smt Donme | Associate | 15 | 4 | 220 | 497 | 207 | 202 | 409 | 906 |
| | Lizana A. | Professor | | | | | | | | |
| | sangma | | | | | | | | | |
| 3 | Shri | Assistant | 15 | 3 | 221 | 497 | 209 | 202 | 411 | 908 |
| | Bithingkon | Professor | | | | | | | | |
| | G. Momin | | | | | | | | | |
| 4 | Dr. | Assistant | 15 | 3 | 221 | 497 | 209 | 202 | 411 | 908 |
| | Kiewshaphr | Professor | | | | | | | | |
| | ang | | | | | | | | | |
| | Kharnaior | | | | | | | | | |
| 5 | Miss Lisa | Lecturer | 15 | 2 | 61 | 137 | 60 | 70 | 130 | 267 |
| | Valerie K. | Lecturer | 13 | 2 | 01 | 137 | | /0 | 130 | 207 |
| | Marak | | | | | | | | | |
| | Ividian | | | | | | | | | |
| 6 | Dr. | Lecturer | 15 | 2 | 54 | 121 | 50 | 57 | 107 | 228 |
| | Pynsakhiat | | | | | | | | | |
| | Miki | | | | | | | | | |
| | Gashnga | | | | | | | | | |
| | 2.4 | T | 1.5 | | <i>7.4</i> | 101 | 50 | 57 | 107 | 220 |
| 7 | Mr. | Lecturer | 15 | 2 | 54 | 121 | 50 | 57 | 107 | 228 |
| | Smarling | | | | | | | | | |
| | Suting | | | | | | | | | |
| 1 | i . | i . | 1 | 1 | 1 | i . | i | i e | i | i . |



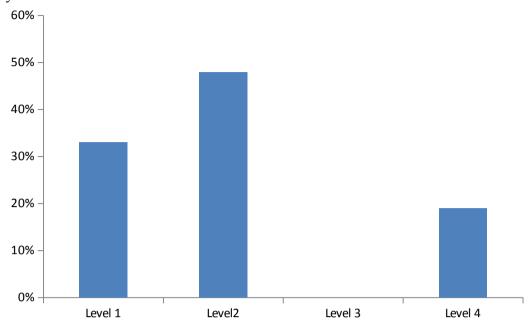
Graphical Presentation of Faculty work load

TIME TABLE: DEPTT. OF CHEMISTRY TURA GOVT. COLLEGE, TURA 2018-2019

| DAYS | Class | 9:30 to 10:15 | 10:15 to 11:00 | 11:00 to 11:45 | 11:45 to 12:30 | | 12:45 to 1:30 | 1:30 to 2:15 | 2:15to 3:00 | 3:00 to 3:45 | 3:45 to 4:30 |
|----------|--------------|---------------|----------------|----------------|----------------|------------|---------------|-----------------|-------------|--------------|-----------------|
| | I Semester | | | | | 7 [| Practica | Practical SS/KK | | | |
| | II Semester | | | | | В | Practical I | PMG/DAS | LKM | | |
| | III Semester | | | LKM | | R | | | | Practica | BG/LKM |
| Monday | IV Semester | | | LKM | | E | | | | Practica | BG/LKM |
| | V Semester | | DAS | DAS | IWM | 7 A | ENG | BG | SS | LKM | |
| | VI Semester | | DAS | DAS | IWM | K | EVS | BG | SS | LKM | |
| | | | * | * | • | | | | | | |
| | I Semester | SS | | | | | Practica | al SS/KK | | Practic | al SS/KK |
| | II Semester | SS | | | | В | Practical I | PMG/DAS | | Practical | PMG/DAS |
| | III Semester | | | DAS | | R | BG | | | Practica | BG/LKM |
| Tuesday | IV Semester | | | DAS | | E | BG | | | Practica | BG/LKM |
| 100000 | V Semester | | PMG | BG | IWM | A | ENG | IWM | IWM | SS | |
| | VI Semester | | PMG | BG | IWM | ⊢ κ | EVS | IWM | IWM | SS | |
| | | | | | | | | | | | |
| | I Semester | | | KK | | | DAS | PMG | | | |
| | II Semester | | | KK | | В | DAS | PMG | | | |
| Wed | III Semester | SS | | | KK | R | | | | Practical | BG/ LKM |
| nesday | IV Semester | SS | | | KK | │ E | | | | Practical | BG/ LKM |
| 1100000, | V Semester | | PMG | SS | SS | A | ENG | Practica | al KK/SS | BG | |
| | VI Semester | | PMG | SS | SS | K | EVS | Practica | al KK/SS | BG | |
| | | | | | | - | | | | • | • |
| | I Semester | | | Practica | SS/KK | | KK | | PMG | | |
| | II Semester | | | | DAS/PMG | В | KK | | PMG | | |
| | III Semester | PMG | | | DAS | R | | | | Practical | BG/ LKM |
| Thursday | IV Semester | PMG | | | DAS | E | | | | Practical | BG/ LKM |
| | V Semester | | LKM | LKM | BG | A | ENG | DAS | DAS | PMG | |
| <u> </u> | VI Semester | | LKM | LKM | BG | K | EVS | DAS | DAS | PMG | |
| | | | | | | | | | | | |
| | I Semester | BG | BG | | | | | LKM | | | |
| | II Semester | BG | BG | | | В | | LKM | | | |
| | III Semester | | | KK | | R | | SS | PMG | | |
| Friday | IV Semester | | | KK | | E | | SS | PMG | | |
| , | V Semester | | PMG | SS | KK | A | Practica | al SS/KK | KK | PMG | |
| | VI Semester | | PMG | SS | KK | K | Practica | al SS/KK | KK | PMG | |

Copy: To IWM, DAS, BG, KK, LKM, PMG, SS and Dept.

Faculty Work Distribution



Faculty Publications:

| raculty Fublication | | T | x | NT 0 |
|---------------------|---|--------------|------------|---------------|
| Author Name | Titles of the paper | Internationa | Vol. | Name of |
| | | l | No./Year | Journal |
| | | /National | | |
| Z. PACHUAU, | Isomerization of propargyl | Internationa | Vol. 125, | J. Chem. Sci. |
| K. S. | cation to cyclopropenyl | 1 | No. 2, | |
| KHARNAIOR | cation: Mechanistic | ISSN 0974- | 2013, pp. | |
| and R.H. D. | elucidations and effects of | 3626 Print | 365–378 | |
| LYNGDOH | lone pair donors | | | |
| K. S. | Exploration of minima on | Internationa | Vol. 126, | J. Chem. Sci. |
| KHARNAIOR | the C ₇ H ₇ ⁺ surface: | 1 | No. 4, | |
| and R. H D. | Structural, stability and | ISSN 0974- | 2014, pp. | |
| LYNGDOH | charge-related | 3626 Print | 1181–1195 | |
| | considerations | | | |
| K. S. | Generation and | Internationa | Vol. 1091, | Comp. Theo. |
| KHARNAIOR, | isomerization reactions of | 1 | 2016, pp | Chem. |
| M. Devi and R. | $C_7H_7^+$ cations in gas | ISSN 2210- | 150-164 | |
| HD. | phase: An ab initio study | 271X | | |
| LYNGDOH | | | | |
| K. S. | C ₄ H ₄ ⁺ radical cation | Internationa | Vol. 1115, | Comp. Theo. |
| KHARNAIOR, | isomers: generation, | 1 | 2017, pp | Chem. |
| A. K. Chandra | structure, stability and | ISSN 2210- | 158-168 | |
| and R. H D. | isomerisation reaction. | 271X | | |
| LYNGDOH | | | | |
| Pynsakhiat Miki | Modulation of ESIPT | | Vol. 218. | Journal of |
| Gashnga, T. | fluorescence in o-hydroxy | | 2016, pp | Molecular |
| Sanjoy Singh, | acetophenone derivatives: | | 549-557 | Liquids |
| Sivaprasad | A comparative study in | | | |
| Mitra | different bio-mimicking | | | |

| | aqueous interfaces | | |
|--|---|---------------------------------------|---|
| M. M Islam, V. K Sonu, P. M Gashnga, N. S Moyon and S. Mitra | Caffeine and Sulphadiazine interact differently with human serum albumin: A combined fluorescence and molecular docking study | Vol. 152, 2016, pp 23-33 | Spectrochemic a Acta Part- A: Molecular and Biomolecular Spectroscopy |
| P. M Gashnga, T. S. Singh, T. S Basu Baul, and S. Mitra | Photophysical Properties and Excited state intramolecular proton transfer in 2-hydroxy-5-[(E)-(4-methoxy phenyl)diazenyl]benzoic acid in homogeneous solvent and microheterogeneous environment | Vol. 128. 2014. Pp- 134-142 | Journal of Luminescence |
| M. M Islam, N. S Moyon, P. M Gashnga, S. Mitra | Interaction of Sulphadiazine with model water soluble protein: A Combined fluorescence spectroscopic and molecular modeling approach | | Journal of Fluorescence |
| N. S Moyon. P. M Gashnga. S. Phukan, S. Mitra | Specific Solvent effect on lumazine photophysics: A Combined fluorescence and intrinsic reaction coordinate analysis | vol. 421. 2013, pp 22-31 | Chemical Physics |
| S. Mitra, A. K Chandra. P. M Gashnga. S. Jenkin, S.R Kirk | Exploring hydrogen bond in the excited state leading toward intramolecular proton transfer: Detailed analysis of the structure and charge density topology along the reaction path using QTAIM | vol- 18(9), 2012, pp- 4225-4236 | Journal of Molecular Modeling |

Student Data:

| Session | I | II Sei | mestei | - | III Se | emeste | er | IV Semester | | V Semester | | | VI Semester | | | |
|---------|---------------------|-------------------|---------|---------|---------------|----------|---------|----------------|----------|------------|--------------|----------|-------------|------------------|---------|---------|
| | Sem. | | | | | | | | | | | | | | | |
| | nts | nts | ıts | | nts | ıts | | ents | ıts | | ents | ıts | | nts | ıts | |
| | de | de | ropouts | % | dents | Dropouts | % | 7 | Dropouts | % | þ | Dropouts | % | qe | ropouts | % |
| | gg q | et di | rog | rt | et d | rog | ut | 景 | rog | ut | eta | 101 | rt | etd | rog | rt |
| | Madrooffeetal dents | Michoiftetoldents | D. | Oropout | Nacimonifteda | | Oropout | Nacimoniftedal | | ropout | Madmoiftætal | | Dropout | Midnoiftædidents | D. | Dropout |
| | l de | l de | Jo |)ro | dn | of |)ro | -f | of |)ro | din | of |)ro | dn | of |)ro |
| | 7 | 7 | No. | | Z | No. | | Z | No. | П | 7 | No. | Ц | Z | No. | |
| | | | [| | |] | | | | | | | | | | |
| 2015-16 | 26 | 17 | 9 | 35 | 18 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 | 18 | 0 | 0 |
| 2016-17 | 39 | 22 | 17 | 44 | 22 | 0 | 0 | 22 | 0 | 0 | 22 | 0 | 0 | | | |
| 2017-18 | 35 | 17 | 18 | 51 | 17 | 0 | 0 | 17 | 1 | 6 | 16 | | | | | |
| 2018-19 | 28 | 13 | 15 | 54 | | | | | | | | | | | | |

Student Data - Examination Results

| Year | No. of students who appear in the final examination | No. of students who cleared the examination | No. of students with first division | No. of students with second division | Pass % |
|------|---|---|-------------------------------------|--------------------------------------|--------|
| 2014 | 2 | 2 | | 2 | 100 |
| 2015 | 0 | | | | |
| 2016 | 5 | 3 | | 3 | 60 |
| 2017 | 5 | 3 | | 3 | 60 |
| 2018 | 17 | 8 | 2 | 6 | 47.1 |

Students' Progression

| Students' Progression | | | | | | | | | | |
|--------------------------|---|--|---|---|--|--|--|--|--|--|
| Name of the students who | Higher | University | Divisi | Present status | | | | | | |
| pass final year | studies | | on | | | | | | | |
| examination | in | | secur | | | | | | | |
| | | | ed | | | | | | | |
| John Sandip D. Sangma | M.Sc | Anamalay, | II | Asst. Teacher | | | | | | |
| | | Tamilnadu | | Dalu Govt. School. | | | | | | |
| Dipankar Mahanta | B.Sc | NEHU | II | Asst. Teacher | | | | | | |
| | | | | Sasengpara School | | | | | | |
| | | | | Dalu . | | | | | | |
| Durantha M. Sangma | B.Sc. | NEHU | II | B.Ed (I-semester) | | | | | | |
| Chiripchi M. Momin | M.Sc | | | Pursuing Ph.D | | | | | | |
| Denisha N Sangma | M.Sc | | | I-Semester | | | | | | |
| | | = | | | | | | | | |
| | | Technolgy Deradune | | | | | | | | |
| Sugara M. Marak | M.Sc | Mizoram | | I- Semester | | | | | | |
| Nikrang K. Marak | M.Sc | Mizoram | | I- Semester | | | | | | |
| Bamseng K Marak | M.Sc | Assam Don Bosco | | I- Semester | | | | | | |
| Salgira D. Sangma | M.Sc | Assam Don Bosco | | I- Semester | | | | | | |
| Sunmerry T. Sangma | M.Sc | Assam Don Bosco | | I- Semester | | | | | | |
| Nodilchi Ch.Marak | M.Sc | Assam Don Bosco | | I- Semester | | | | | | |
| Tamami Ch. Sangma | M.Sc | Doon PG College of | | I- Semester | | | | | | |
| | | Agriculture Science & | | | | | | | | |
| | | Technolgy Deradune | | | | | | | | |
| | pass final year examination John Sandip D. Sangma Dipankar Mahanta Durantha M. Sangma Chiripchi M. Momin Denisha N Sangma Sugara M. Marak Nikrang K. Marak Bamseng K Marak Salgira D. Sangma Sunmerry T. Sangma Nodilchi Ch.Marak | pass final year studies in John Sandip D. Sangma M.Sc Dipankar Mahanta B.Sc Durantha M. Sangma B.Sc. Chiripchi M. Momin M.Sc Denisha N Sangma M.Sc Sugara M. Marak M.Sc Nikrang K. Marak M.Sc Bamseng K Marak M.Sc Salgira D. Sangma M.Sc Sunmerry T. Sangma M.Sc Nodilchi Ch.Marak M.Sc | pass final year examination John Sandip D. Sangma M.Sc Anamalay, Tamilnadu Dipankar Mahanta B.Sc NEHU Durantha M. Sangma Chiripchi M. Momin Denisha N Sangma M.Sc Doon PG College of Agriculture Science & Technolgy Deradune Sugara M. Marak M.Sc Nikrang K. Marak M.Sc Mizoram Nikrang K. Marak M.Sc Salgira D. Sangma M.Sc Sangma M.Sc Assam Don Bosco Sunmerry T. Sangma M.Sc Nodilchi Ch.Marak M.Sc Assam Don Bosco Nodilchi Ch.Marak M.Sc Doon PG College of Agriculture Science & Doon PG College of Agriculture Science & Doon PG College of Agriculture Science & Doon PG College of Agriculture Science & | pass final year examination Studies in II Dipankar Mahanta B.Sc. NEHU II Studies in II II Studies in II II Studies in II II Studies in | | | | | | |





Successful Alumni of the Department:

| Name of Alumni | Qualificatio | Present Status | Present Address | Contac No. |
|--------------------|--------------|------------------|---------------------|------------|
| | n | | | |
| Mr. Isaac W. | M.Sc | HOD, Chemistry | Tura Govt. College, | 943611497 |
| Momin | | Tura Govt. | Tura | 1 |
| | | College, Tura | | |
| Smt. Donme L. A. | M.Sc. | Asso. Prof. Tura | Tura Govt. College, | 943631636 |
| Sangma | | Govt. College | Tura | 0 |
| Mr. Bithingkon G. | M.Sc, NET | Asst. Professor | Tura Govt. College, | 9436995524 |
| Momin | | Tura Govt. | Tura | |
| | | College, Tura | | |
| Mr. John Sandip D. | M.Sc | Asst. Teacher | Dobasipara | 8787324453 |
| Sangma | | Dalu Govt. | Tura | |
| | | School. | | |
| Mr. Nirmal Sarkar | B.Sc | Asst. Teacher | Mendal | 9862665147 |
| | | Don Bosco | Don Bosco | |
| | | School Mendal. | | |
| Mr. Dipankar | B.Sc | Asst. Teacher | Dalu | 8787892248 |
| Mahanta | | Sasengpara | | |
| | | School Dalu. | | |
| Mr. Nabakrishna | M.Sc | Asst. lecturer | Tura | 8787629077 |
| Hajong | | Govt Girls Hr. | | |
| | | Sec-Tura | | |

PROGRAM OUTCOMES: Bachelor Of Science (B.Sc.)

After graduating in B.Sc. students should have:

- Acquired the knowledge of theory and practical related to the subjects of Physics, Chemistry, Mathematics, Botany and Zoology which if offered in the college by the following combination.
 - 1. Physics Chemistry and Maths
 - 2. Chemistry, Botany and Zoology
- Understood the basic concepts, fundamental principles and scientific theory related to various topics as outlined in the syllabus.
- Acquired the skill of handling scientific instruments to execute laboratory experiments.
- Obtained the skills of observations, analysis of a given scientific data and draw logical conclusions.
- To build positive attitude towards sustainable development.
- Developed scientific outlook not only with respect to science subjects but also in all aspects related to life
- Imbibe ethical, moral and social values in personal and social life.
- Develop various communication skills such as reading, listening, speaking etc., which will be necessary in expressing ideas and views clearly and effectively.
- To understand the various types of environmental issues such as global warming and pollution the impact it has on ecology and biological life.

• To understand that pursuit of knowledge is a lifelong activity and to acquire positive attitude and other qualities which will lead us to a successful life?

Program Specific Outcome for UG Chemistry Honours

Students graduating with a B.Sc. Honours in Chemistry should be able to:

- PSO1. Imparting the knowledge that Chemistry is the centre of Science
- PSO2. Developing the knowledge that Chemistry plays an important role in our daily lives
- PSO3. Imparting knowledge of theoretical and experimental background in Chemistry
- PSO4. Developing proficiency in the Chemistry laboratory
- PSO5. Creating awareness about Chemical pollutions
- PSO6. Students are able to clearly articulate basic chemical information
- PSO7. Pursue further studies in chemistry and its application

Measurement of Attainment for PSOs

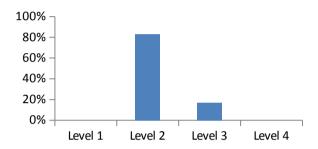
Percentage of Marks obtained in a semester (I Sem.)

| Level I | 60% and above | I DIVISION |
|-----------|--|-------------|
| Level II | 45% and above but below 60% | II DIVISION |
| Level III | Below 45% but secured pass marks i,e. 30 | Simple PASS |
| Level IV | Below 30% | Failed |

*Level determined as per University criteria for awarding DIVISION

| Sl No | Roll No. | Students Name | Marks Obtaine d | Level I | Level II | Level III | Level IV |
|----------|----------|--------------------------|-----------------------|---------|----------|-----------|----------|
| 1 | S1602623 | SILCHIRA CH. MARAK | 47 | | 1 | | |
| 2 | S1602624 | CHENGRAK P. SANGMA | 55 | | 1 | | |
| 3 | S1602625 | JINNA MARCY CH. MARAK | 53 | | 1 | | |
| 4 | S1602626 | CHEJRING K. MARAK | 73 | 1 | | | |
| 5 | S1602627 | OLIVIA M. MARAK | 45 | | 1 | | |
| 6 | S1602628 | JACKNO MERRY T. SANGMA | 60 | 1 | | | |
| 7 | S1602629 | MARSAL JAKSRAM M. SANGMA | 45 | | 1 | | |
| 8 | S1602630 | MIBANI N. SANGMA | 44 | | | 1 | |
| 9 | S1602631 | NORACHI M. SANGMA | 56 | | 1 | | |
| 10 | S1602632 | WALCHERA A. MARAK | 56 | | 1 | | |
| 11 | S1602634 | TENGSRANG D. SANGMA | 50 | | 1 | | |
| 12 | S1602635 | TARIANG D. SHIRA | 52 | | 1 | | |
| 13 | S1602637 | BENIBERT I. SANGMA | F | | | | 1 |
| 14 | S1602638 | JUNIA R. MARAK | 44 | | | 1 | |

| 15 | S1602639 | BRENEY THINDHA A. SANGMA | 50 | | 1 | | |
|----|------------------------|---------------------------|----|----|----|----|---|
| 16 | S1602640 | BALTUSH N. MARAK | 51 | | 1 | | |
| 17 | S1602642 | TENGKIM B. MARAK | 39 | | | 1 | |
| 18 | S1602645 | NAMESA CH. MARAK | 59 | | 1 | | |
| 19 | S1602647 | CHINGKI MESAME M. SANGMA | 47 | | 1 | | |
| 20 | S1602649 | WANDASA A. MARAK | F | | | | 1 |
| 21 | S1602650 | TESITHA M. SANGMA | 46 | | 1 | | |
| | | Total No of Students = 21 | | 2 | 14 | 3 | 2 |
| | Percentage of Students | | 10 | 67 | 14 | 10 | |



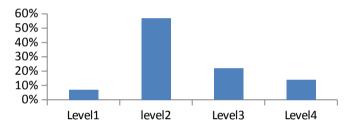
Percentage of Marks obtained in a semester (II Sem.)

| Level I | 60% and above | I DIVISION |
|-----------|--|-------------|
| Level II | 45% and above but below 60% | II DIVISION |
| Level III | Below 45% but secured pass marks i,e. 30 | Simple PASS |
| Level IV | Below 30% | Failed |

*Level determined as per University criteria for awarding DIVISION

| Sl No | Roll No. | Students Name | Marks Obtaine d | Level I | Level II | Level III | Level IV |
|----------|----------|--------------------------|-----------------------|---------|----------|-----------|----------|
| 1 | S1602623 | SILCHIRA CH. MARAK | 50 | | 1 | | |
| 2 | S1602624 | CHENGRAK P. SANGMA | F | | | | 1 |
| 3 | S1602625 | JINNA MARCY CH. MARAK | 61 | 1 | | | |
| 4 | S1602626 | CHEJRING K. MARAK | 79 | 1 | | | |
| 5 | S1602627 | OLIVIA M. MARAK | F | | | | 1 |
| 6 | S1602628 | JACKNO MERRY T. SANGMA | 57 | | 1 | | |
| 7 | S1602629 | MARSAL JAKSRAM M. SANGMA | 42 | | | 1 | |
| 8 | S1602630 | MIBANI N. SANGMA | F | | | | 1 |
| 9 | S1602631 | NORACHI M. SANGMA | 50 | | 1 | | |
| 10 | S1602632 | WALCHERA A. MARAK | 50 | | 1 | | |
| 11 | S1602634 | TENGSRANG D. SANGMA | 44 | | | 1 | |

| 12 | S1602635 | TARIANG D. SHIRA | 51 | | 1 | | |
|----|---------------------------|--------------------------|----|----|----|----|----|
| 13 | S1602637 | BENIBERT I. SANGMA | F | | | | 1 |
| 14 | S1602638 | JUNIA R. MARAK | 46 | | | 1 | |
| 15 | S1602639 | BRENEY THINDHA A. SANGMA | 46 | | 1 | | |
| 16 | S1602640 | BALTUSH N. MARAK | 46 | | 1 | | |
| 17 | S1602642 | TENGKIM B. MARAK | F | | | | 1 |
| 18 | S1602645 | NAMESA CH. MARAK | 49 | | 1 | | |
| 19 | S1602647 | CHINGKI MESAME M. SANGMA | 48 | | 1 | | |
| 20 | S1602649 | WANDASA A. MARAK | 40 | | | 1 | |
| 21 | S1602650 | TESITHA M. SANGMA | 52 | | 1 | | |
| | Total No of Students = 21 | | | 2 | 10 | 4 | 6 |
| | Percentage of Students | | | 10 | 48 | 19 | 24 |



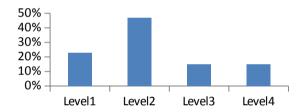
Percentage of Marks obtained in a semester (III Sem.)

| Level I | 60% and above | I DIVISION |
|-----------|--|-------------|
| Level II | 45% and above but below 60% | II DIVISION |
| Level III | Below 45% but secured pass marks i,e. 30 | Simple PASS |
| Level IV | Below 30% | Failed |

$*Level\ determined\ as\ per\ University\ criteria\ for\ awarding\ DIVISION$

| Sl No | Roll No. | Students Name | Marks Obtaine | Level I | Level II | Level III | Level IV |
|----------|----------|--------------------------|------------------|---------|----------|-----------|----------|
| | | | d | | | | |
| 1 | S1602623 | SILCHIRA CH. MARAK | 57 | | 1 | | |
| 2 | S1602624 | CHENGRAK P. SANGMA | F | | | | 1 |
| 3 | S1602625 | JINNA MARCY CH. MARAK | 83 | 1 | | | |
| 4 | S1602626 | CHEJRING K. MARAK | 91 | 1 | | | |
| 5 | S1602627 | OLIVIA M. MARAK | F | | | | 1 |
| 6 | S1602628 | JACKNO MERRY T. SANGMA | 75 | 1 | | | |
| 7 | S1602629 | MARSAL JAKSRAM M. SANGMA | F | | | | 1 |
| 8 | S1602630 | MIBANI N. SANGMA | F | | | | 1 |

| 9 | S1602631 | NORACHI M. SANGMA | 57 | | 1 | | |
|----|---------------------------|--------------------------|----|----|----|---|----|
| 10 | S1602632 | WALCHERA A. MARAK | 57 | | 1 | | |
| 11 | S1602634 | TENGSRANG D. SANGMA | 51 | | 1 | | |
| 12 | S1602635 | TARIANG D. SHIRA | 56 | | 1 | | |
| 13 | S1602637 | BENIBERT I. SANGMA | 45 | | 1 | | |
| 14 | S1602638 | JUNIA R. MARAK | 62 | 1 | | | |
| 15 | S1602639 | BRENEY THINDHA A. SANGMA | 49 | | 1 | | |
| 16 | S1602640 | BALTUSH N. MARAK | 63 | 1 | | | |
| 17 | S1602642 | TENGKIM B. MARAK | 42 | | 1 | | |
| 18 | S1602645 | NAMESA CH. MARAK | 46 | | 1 | | |
| 19 | S1602647 | CHINGKI MESAME M. SANGMA | 54 | | 1 | | |
| 20 | S1602649 | WANDASA A. MARAK | F | | | | 1 |
| 21 | S1602650 | TESITHA M. SANGMA | 60 | 1 | | | |
| | Total No of Students = 21 | | 6 | 10 | 0 | 5 | |
| | Percentage of Students | | | 29 | 48 | 0 | 23 |



Percentage of Marks obtained in a semester (IV Sem.)

| Level I | 60% and above | I DIVISION |
|-----------|--|-------------|
| Level II | 45% and above but below 60% | II DIVISION |
| Level III | Below 45% but secured pass marks i,e. 30 | Simple PASS |
| Level IV | Below 30% | Failed |

*Level determined as per University criteria for awarding DIVISION

| Sl No | Roll No. | Students Name | Marks Obtaine d | Level I | Level II | Level III | Level IV |
|----------|----------|------------------------|-----------------------|---------|----------|-----------|----------|
| 1 | S1602623 | SILCHIRA CH. MARAK | 58 | | 1 | | |
| 2 | S1602624 | CHENGRAK P. SANGMA | F | | | | 1 |
| 3 | S1602625 | JINNA MARCY CH. MARAK | 83 | 1 | | | |
| 4 | S1602626 | CHEJRING K. MARAK | 83 | 1 | | | |
| 5 | S1602627 | OLIVIA M. MARAK | 52 | | 1 | | |
| 6 | S1602628 | JACKNO MERRY T. SANGMA | 69 | 1 | | | |

| 7 | S1602629 | MARSAL JAKSRAM M. SANGMA | 50 | | 1 | | |
|----|----------|---------------------------|----|----|----|---|----|
| 8 | S1602630 | MIBANI N. SANGMA | F | | | | 1 |
| 9 | S1602631 | NORACHI M. SANGMA | 52 | | 1 | | |
| 10 | S1602632 | WALCHERA A. MARAK | 64 | 1 | | | |
| 11 | S1602634 | TENGSRANG D. SANGMA | 55 | | 1 | | |
| 12 | S1602635 | TARIANG D. SHIRA | 62 | 1 | | | |
| 13 | S1602637 | BENIBERT I. SANGMA | 49 | | 1 | | |
| 14 | S1602638 | JUNIA R. MARAK | F | | | | 1 |
| 15 | S1602639 | BRENEY THINDHA A. SANGMA | 55 | | 1 | | |
| 16 | S1602640 | BALTUSH N. MARAK | 61 | 1 | | | |
| 17 | S1602642 | TENGKIM B. MARAK | 46 | | 1 | | |
| 18 | S1602645 | NAMESA CH. MARAK | 56 | | 1 | | |
| 19 | S1602647 | CHINGKI MESAME M. SANGMA | 48 | | 1 | | |
| 20 | S1602649 | WANDASA A. MARAK | F | | | | 1 |
| 21 | S1602650 | TESITHA M. SANGMA | 70 | 1 | | | |
| | | Total No of Students = 21 | | 7 | 10 | 0 | 4 |
| | | Percentage of Students | | 33 | 48 | 0 | 19 |



Conclusion:

With few exemption for some students who failed in either theory or absent in practical the departmental attainment of PSO is good despite having the highest percentages of 2nd division students but this is not being rule out as the department also have an almost equally number of good parentage 1st division students which is reflected in the result present above.

Course Outcomes

- 1. Courses are Inorganic, Organic and Physical Chemistry.
- 2. Courses are relevant as students can further study in broad areas of chemistry like Pharmaceutical Chemistry, Food Chemistry and Industrial Chemistry etc.
- 3. Syllabus: The Syllabus is well updated and is frame by N.E.H.U

Inorganic Chemistry

Course Code: (Chem EH 101, Chem EH 201, Chem EH 301, Chem 302 Chem EH 401, Chem EH 402, Chem H 501, Chem 601, Chem H 604)
Aim in:

- 1. Developing the ability to apply the knowledge on contents of principles of Inorganic Chemistry
- 2. Establishing an appreciation for the role of Inorganic Chemistry in the Chemical Sciences

- 3. Developing expertise relevant to the professional practice of Inorganic Chemistry
- 4. Developing an understanding of the role of the students in measurement and problem solving involving Inorganic Chemical systems
- 5. Exposure to different processors used in Industries and their applications
- 6. Developing an understanding of the safety responsibilities involved with Inorganic Chemistry

Organic Chemistry

Course Code: (Chem EH 101, Chem E 102, Chem H 103, Chem EH 201, Chem EH 301, Chem EH 401, Chem H 502, Chem H 504, Chem 602,)
Aim in:

- 1. Developing spectral knowledge
- 2. Developing proper aptitude towards the subject
- 3. Creating scientific approach towards various chemical reactions
- 4. Developing sustainable and green approach to chemical synthesis
- 5. Developing better and cheaper medicines

Physical chemistry

Course Code: (Chem EH 101, Chem EH 201, Chem 202, Chem EH 301, Chem EH 401, Chem H 503, Chem H 505, Chem 603)

Aim in:

- 1. Developing problem solving skills
- 2. Developing scientific knowledge
- 3. Developing working knowledge of instrument
- 4. Developing a working formula and theory

Measurement of Attainment for CO

Percentage of knowledge obtained from learning.

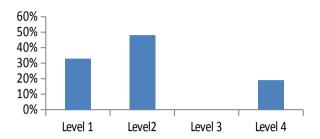
| Level I | 91%-100% | Excellent |
|-----------|----------|-----------|
| Level II | 80%-90% | Very good |
| Level III | 60%-79% | Good |
| Level IV | 40%-59% | Average |

^{*}Level determined as per Question answered by the students

CLASS -I SEMESTER Inorganic Chemistry

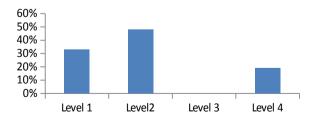
| Sl No | Average Scores | Level I | Level II | Level III | Level IV |
|----------|-------------------|---------|----------|-----------|----------|
| | Obtained | | | | |
| 1 | 80%-90% | | 1 | | |
| 2 | 80%-90% | | 1 | | |
| 3 | 80%-90% | | 1 | | |
| 4 | 80%-90% | | 1 | | |
| 5 | 80%-90% | | 1 | | |
| 6 | 80%-90% | | 1 | | |
| 7 | 60%-70% | | | 1 | |
| 8 | 80%-90% | | 1 | | |
| 9 | 60%-70% | | | 1 | |
| 10 | 60%-70% | | | 1 | |

| 11 | 60%-70% | | | 1 | |
|----|----------|----|-----|-----|----|
| 12 | 60%-70% | | | 1 | |
| | Total | 0 | 7 | 5 | |
| Pe | rcentage | 0% | 58% | 42% | 0% |



CLASS -I SEMESTER Organic Chemistry

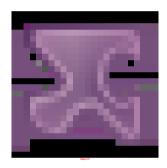
| Sl | Average | Level I | Level II | Level III | Level IV |
|----|-----------|---------|----------|-----------|----------|
| No | Scores | | | | |
| | Obtained | | | | |
| 1 | 80%-90% | | 1 | | |
| 2 | 60%-70% | | | 1 | |
| 3 | 80%-90% | | 1 | | |
| 4 | 80%-90% | | 1 | | |
| 5 | 60%-70% | | | 1 | |
| 6 | 60%-70% | | | 1 | |
| 7 | 60%-70% | | | 1 | |
| 8 | 60%-70% | | | 1 | |
| 9 | 60%-70% | | | 1 | |
| 10 | 60%-70% | | | 1 | |
| 11 | 60%-70% | | | 1 | |
| 12 | 60%-70% | | | 1 | |
| | Total | 0 | 3 | 9 | 0 |
| Pe | ercentage | 0% | 25% | 75% | 0% |



CLASS -I SEMESTER Physical Chemistry

| SI No | Average Scores Obtained | Level I | Level II | Level III | Level IV |
|----------|-------------------------------|---------|----------|-----------|----------|
| 1 | 80%-90% | | 1 | | |

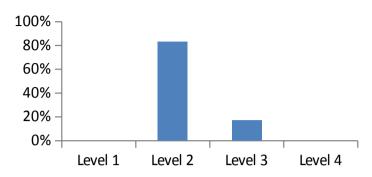
| 2 | 80%-90% | | 1 | | |
|----|----------|----|-----|-----|----|
| 3 | 80%-90% | | 1 | | |
| 4 | 80%-90% | | 1 | | |
| 5 | 80%-90% | | 1 | | |
| 6 | 80%-90% | | 1 | | |
| 7 | 80%-90% | | 1 | | |
| 8 | 80%-90% | | 1 | | |
| 9 | 60%-70% | | | 1 | |
| 10 | 60%-70% | | | 1 | |
| 11 | 80%-90% | | 1 | | |
| 12 | 80%-90% | | 1 | | |
| | Total | 0 | 10 | 2 | 0 |
| Pe | rcentage | 0% | 83% | 17% | 0% |



CLASS -III SEMESTER Inorganic Chemistry

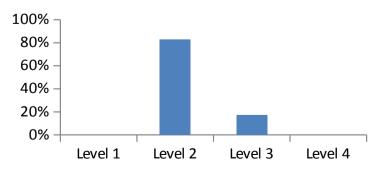
| SI No | Average Scores Obtained | Level I | Level II | Level III | Level IV |
|----------|-------------------------------|---------|----------|-----------|----------|
| 1 | 60%-70% | | | 1 | |
| 2 | 40%-59% | | | | 1 |
| 3 | 80%-90% | | 1 | | |
| 4 | 60%-70% | | | 1 | |
| 5 | 80%-90% | | 1 | | |
| 6 | 80%-90% | | 1 | | |
| 7 | 40%-59% | | | | 1 |
| 8 | 40%-59% | | | | 1 |
| 9 | 60%-70% | | | 1 | |
| 10 | 80%-90% | | 1 | | |
| 11 | 40%-59% | | | | 1 |
| 12 | 40%-59% | | | | 1 |
| 13 | 80%-90% | | 1 | | |
| 14 | 80%-90% | | 1 | | |

| Total | 0 | 6 | 3 | 5 |
|------------|----|-----|-----|-----|
| Percentage | 0% | 43% | 21% | 36% |



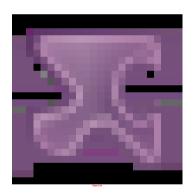
CLASS -III SEMESTER Organic Chemistry

| Sl | Average | Level I | Level II | Level III | Level IV |
|----|-----------|---------|----------|-----------|----------|
| No | Scores | | | | |
| | Obtained | | | | |
| 1 | 40%-59% | | | | 1 |
| 2 | 40%-59% | | | | 1 |
| 3 | 60%-70% | | | 1 | |
| 4 | 80%-90% | | 1 | | |
| 5 | 80%-90% | | 1 | | |
| 6 | 40%-59% | | | | 1 |
| 7 | 40%-59% | | | | 1 |
| 8 | 40%-59% | | | | 1 |
| 9 | 40%-59% | | | | 1 |
| 10 | 60%-70% | | | 1 | |
| 11 | 40%-59% | | | | 1 |
| 12 | 40%-59% | | | | 1 |
| 13 | 60%-70% | | | 1 | |
| 14 | 60%-70% | | | 1 | |
| | Total | 0 | 2 | 4 | 8 |
| Pe | ercentage | 0% | 14% | 29% | 57% |



CLASS -III SEMESTER **Physical Chemistry**

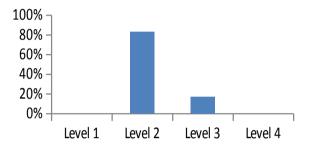
| SI No | Average Scores | Level I | Level II | Level III | Level IV |
|----------|-------------------|-----------|----------|-----------|----------|
| 110 | Obtained | | | | |
| 1 | 60%-70% | | | 1 | |
| 2 | 60%-70% | | | 1 | |
| 3 | 80%-90% | | 1 | | |
| 4 | 80%-90% | | 1 | | |
| 5 | 80%-90% | | 1 | | |
| 6 | 80%-90% | | 1 | | |
| 7 | 40%-59% | | | | 1 |
| 8 | 40%-59% | | | | 1 |
| 9 | 80%-90% | | 1 | | |
| 10 | 60%-70% | | | 1 | |
| 11 | 91%-100% | 1 | | | |
| 12 | 80%-90% | | 1 | | |
| 13 | 80%-90% | | 1 | | |
| 14 | 80%-90% | | 1 | | |
| | Total | 1 | 8 | 3 | 2 |
| Pe | ercentage | 7% | 57% | 22% | 14% |



CLASS -V SEMESTER Inorganic Chemistry

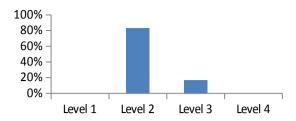
| SI | Average | Level I | Level II | Level III | Level IV |
|----|----------|---------|----------|-----------|----------|
| No | Scores | | | | |
| | Obtained | | | | |
| 1 | 60%-70% | | | 1 | |
| 2 | 91%-100% | 1 | | | |
| 3 | 80%-90% | | 1 | | |
| 4 | 60%-70% | | | 1 | |
| 5 | 60%-70% | | | 1 | |
| 6 | 80%-90% | | 1 | | |
| 7 | 60%-70% | | | 1 | |

| 8 | 60%-70% | | | 1 | |
|----|-----------|----|-----|-----|----|
| 9 | 60%-70% | | | 1 | |
| 10 | 80%-90% | | 1 | | |
| 11 | 60%-70% | | | 1 | |
| 12 | 60%-70% | | | 1 | |
| 13 | 60%-70% | | | 1 | |
| | Total | 1 | 3 | 9 | |
| Pe | ercentage | 8% | 23% | 69% | 0% |



CLASS -V SEMESTER Organic Chemistry

| Sl | Average | Level I | Level II | Level III | Level IV |
|------------|----------|---------|----------|-----------|----------|
| No | Scores | | | | |
| | Obtained | | | | |
| 1 | 60%-70% | | | 1 | |
| 2 | 91%-100% | 1 | | | |
| 3 | 91%-100% | 1 | | | |
| 4 | 60%-70% | | | 1 | |
| 5 | 60%-70% | | | 1 | |
| 6 | 80%-90% | | 1 | | |
| 7 | 60%-70% | | | 1 | |
| 8 | 40%-59% | | | | 1 |
| 9 | 80%-90% | | 1 | | |
| 10 | 80%-90% | | 1 | | |
| 11 | 60%-70% | | | 1 | |
| 12 | 40%-59% | | | | 1 |
| 13 | 60%-70% | | | 1 | |
| | Total | 2 | 3 | 6 | 2 |
| Percentage | | 15% | 23% | 47% | 15% |



CLASS -V SEMESTER Physical Chemistry

| Sl | Average | Level I | Level II | Level III | Level IV |
|------------|----------|---------|----------|-----------|----------|
| No | Scores | | | | |
| | Obtained | | | | |
| 1 | 60%-70% | | | 1 | |
| 2 | 91%-100% | 1 | | | |
| 3 | 80%-90% | | 1 | | |
| 4 | 80%-90% | | 1 | | |
| 5 | 80%-90% | | 1 | | |
| 6 | 91%-100% | 1 | | | |
| 7 | 80%-90% | | 1 | | |
| 8 | 40%-59% | | | | 1 |
| 9 | 91%-100% | 1 | | | |
| 10 | 80%-90% | | 1 | | |
| 11 | 80%-90% | | 1 | | |
| 12 | 40%-59% | | | | 1 |
| 13 | 60%-70% | | | 1 | |
| Total | | 3 | 6 | 2 | 2 |
| Percentage | | 23% | 47% | 15% | 15% |



Conclusion:

The departmental attainment of CO is good despite having some smaller number of students who have gain almost 100% knowledge about the courses but a majority of students have gain almost 60% to 80% knowledge about the courses, except a few irregular students which have only gain below 60% knowledge about the courses, this reflected in the result present above.

Details on student enrichment programmes (special lectures/workshops /seminar) with external experts –

a. Departmental Seminar Conducted annually

b. Special lecture by visiting scientists.

Seminar

Course Code: (Chem H 605)

Aim:

- 1. To inculcate a sense of confidence in terms of public speaking and knowledge of the subject.
- 2. To draw conclusion whether the students have acquire in- depth knowledge of the topic presented.
- 3. Improving communication skills
- 4. Gaining expert and knowledge in the subject
- 5. Developing networking with others
- 6. Renewing motivation

List of eminent academicians and scientists / visitors to the department -

Dr. S. Ningshen of the Department of Atomic Energy, Head Aqueous Corrosion and Protection Section. Metallurgy and Material Group. Indira Gandhi Center for Atomic Research, Kalpakkam, Tamilnadu, India.



Best Practices

Mentoring:

• The department of chemistry introduced "Mentor-Mentee Relationship" with the aim of improving their academic performance as well as overall development.

• Objective:

- > To achieve greater clarity around their career goals and how to achieve them.
- > To learn more about themselves.
- > To gain greater self confidence and self belief.
- > To pursue personal and professional development and practical learning.

Action deployed: Students are grouped in equal numbers and Mentors are appointed. Mentees are informed that they are welcome to approach concerned teachers/any other

teacher for

Gtidance/Counselling

Feedback

Assessment of their performance in test, examinations, etc firting solution to specific problem areas of individual students.

Exposure Visits

| Exposure visits | | | | | | | | |
|-----------------|--|-------------------------------------|----------------------------|--------------------------------------|--|--|--|--|
| Year | Duration of trip | Places of visit | Beneficiaries | Escorts | | | | |
| 2014 | 24 th Nov6 th Dec. | Chennai & Bangalore | Final year students | Shri. B. G. Momin | | | | |
| 2017 | 20 th -28 th May | Delhi & Manali | do | Shri. B. G. Momin | | | | |
| 2018 | $3^{rd} - 7^{th}$ July | Shillong, Dawki & | VI Sem. | Shri. B. G. Momin | | | | |
| | | Sohra | Students | Dr. K. Kharnaior | | | | |
| | 3 rd Dec. | Vigro Cement Factory, Damas Garo | All Sem. Hons. Students | Shri. B. G. Momin Shri. S. Suting | | | | |
| | | Hills | Students | Sin i. S. Suting | | | | |







Shillong

Virgo Cement Factory

Details of Infrastructural Facilities

- a) Class rooms with ICT facility -One
- b) Laboratories 2 Laboratories (1 organic and Physical & 1 inorganic)

Number of students receiving financial assistance from college, government or other agencies - All ST Students receive scholarship form State Government

Teaching methods adopted to improve student learning -

- a. Reading material are provide in addition to lectures deliver. Practical write up are provided.
- c. Use of ITC to enhance teaching learning process.

 Group.interaction to address students problem and weakness

Participation in Institutional Social Responsibility (ISR) and Extension activities -

Students of the department used to take part in Cleaning Drives organized by the College.

SWOC OF CHEMISTRY

S-STRENGHT

- ➤ Dedicated faculty.
- ➤ Varied Specialization of faculty.
- Experienced, Qualified and Trained Teachers in teaching profession.
- Caring and supportive role in the educational endeavors of students.
- Recommended text books are available in college library as well in the department.
- > Regular mentoring/counseling of students.
- ➤ Being a Government college, it has a low fee structure so students from economically poor background can afford to study.
- > Remedial classes are regularly conducted.

W-Weakness

- > Student's enrolment is affected due to the fact that students who opted for science left for professional courses outside the state.
- > Space constraint.
- ➤ Lack in maintenances as it involved a lengthy official procedure as the Education Department of Meghalaya does not have an Engineering wing of its own, but rely on PWD Department.
- Financial support is never on time due to long official formalities.
- Access to science research journal is not sufficient.

O-OPPORTUNITY

- ➤ It is the only Government College having science stream and offering chemistry in the entire Garo Hills region.
- > It educates students from economically poor families.
- ➤ It is located in the head-quarter of the district.
- ➤ Departmental exposure trip for final semester students are conducted regularly as when sanction of money is granted by the government.

C-CHALLENGES

- Congestion in the laboratory
- > Teachers are involved in other activities of college.
- ➤ Chemistry being a common subject in the under graduate level, the department has the largest number of students in the B.Sc. level.
- ➤ On the contrary being a government college, when any transfer, retirement and promotion of faculty member's take place, the filling up of these vacant posts by the government usually take long time.
- ➤ No laboratory technician
- ➤ Being in the District where literacy rate is low with only few brilliant students, but brilliant students pursue professional line after 10 + 2 standard, so large number of below average students continue their study in the college and this is a major

- challenge to teach chemistry for below average students although extra care are taken through remedial classes.
- > Since the students from the area are poor in English. Communication barrier is also one of the main challenges.

Future Plan of the department:

- 1. Introducing new practical to enhance practical skill in students.
- 2. Undertake study tour/fields trips.
- 3. To start carrier guidance classes.