



ACADEMIC QUALIFICATIONS:

<i>Examination passed</i>	<i>Year of passing / Institution</i>	<i>Division</i>
HSLC	2004 / St.Gabriel Hr. Sec. School (MBOSE)	1 ST
HSSLC	2006 / St.Edmund's College (MBOSE)	2 ND
B.Sc Chem. Hon .(PCM)	2010 / St.Edmund's College (NEHU)	1 ST CLASS
M.Sc (Chem.) Physical Chem. Specialisation	2012 / North Eastern Hill University (NEHU)	1 ST CLASS, (Gold Medallist)

PhD: (pursuing)

Synopsis title: "COMPUTATIONAL STUDIES ON ATMOSPHERIC CHEMISTRY OF SELECTED ALCOHOLS AND ETHERS"

University: North Eastern Hill University, Shillong, Meghalaya, India

M.Sc : CHEMISTRY

University: North Eastern Hill University, Shillong, Meghalaya, India

OTHER QUALIFICATIONS:

<i>Test</i>	<i>conducted by</i>	<i>Year</i>	<i>Subject</i>
NET	Joint CSIR-UGC	2017	Chemical Science
SLET	SET Commission (NER)	2014	Chemical Science
GATE	IIT, Delhi	2012	Chemistry (CY)

SHORT COURSES:

1. Completed **ADOBE PHOTOSHOP Online Short-Term Course** at St. Anthony's College, Shillong scheduled from *1st to 14th July 2020*.
2. Completed a **Short-term Course in VIDEO EDITING using ADOBE PREMIERE** at St. Anthony's College scheduled from *12th August to 1st September 2020*.
3. Completed **8 Week Course on Approximate Methods in Quantum Chemistry** hosted by NPTEL funded by the Ministry of HRD, GOI, from *January to March 2021*.

ORIENTATION PROGRAMME / FACULTY DEVELOPMENT PROGRAMME / REFRESHER COURSE / SUMMER SCHOOL:

1. Participated in the **UGC-Sponsored Orientation Programme** organised by the UGC-Human Resource Development Centre, NEHU, Shillong from *25th January to 21st February, 2016*.
2. Participating in a **One Week International FDP on "Latest Trends in Engineering, Science and Technology: Nanomaterials"** organised by the Dept. of Chemistry, Lendi Institute of Engineering and Technology, Vizianagaram from *10th to 15th August 2020*.
3. Participated in the **Faculty Development Programme** organised by NPTEL-AICTE (funded by ministry of HRD, GOI) from *January to March 2021*.
4. Participated in the **Summer School on Quantum Information & Quantum Technology 2021** hosted by IISER Kolkata, West Bengal from *14th June to 18th July 2021*. Sponsored by Indian Institute of Science Education and Research Kolkata QuEST (SERB), Dept of Science & Technology and Council of Scientific and Industrial Research, GOI.
5. Participated in the **2nd Online UGC – Sponsored Refresher Course in Chemistry** organized by UGC-HRDC, Gujarat University, Ahmedabad from *16th to 29th August 2021*.

PUBLICATIONS:

1. "CHF₂CF₂OCHF₂: conformational analysis and direct dynamics study of its reaction with Cl atoms and atmospheric fate", Bidisha Baidya, Makroni Lily, Dimpal Patgiri, **Shemphang Hynniewta**, Asit K. Chandra, *New Journal of Chemistry*, 2020.
2. "Theoretical investigation on the kinetics of reaction of methoxyflurane (CH₃OCF₂CHCl₂) with OH radical and its atmospheric impact", **Shemphang Hynniewta**, Bidisha Baidya, Asit K. Chandra, *Computational and Theoretical Chemistry*, 2020.
3. "Quantum chemical insights into the atmospheric reactions of CH₂FCH₂OH with OH radical, fate of CH₂FCHOH radical and ozone formation potential", Makroni Lily, **Shemphang Hynniewta**, Balaganesh Muthiah, Wenliang Wang, Asit K. Chandra, Fengyi Liu, *Atmospheric Environment*, 2021.
4. "Computational investigations on kinetics of reaction between t-butanol and OH radical and ozone formation potential", **Shemphang Hynniewta**, Makroni Lily, Asit K. Chandra, *Journal of Molecular Graphics and Modelling*, 2021.

SEMINARS AND WORKSHOPS ATTENDED:

1. Participated in the **Workshop on Digital India (Educate/Engage/Empower)**, organised by **National e-Governance Division** under the Deptt. Of Electronics and Information technology, Ministry of Communication and Information technology, GOI at NEHU, Shillong on *3rd March, 2016*.

2. Participated in **One Day Mind Education Programme** hosted by International Mind Education Institute in Shillong on *10th May 2016*.
3. Participated in the **State Level Seminar on “Understanding Seismic Activity”** organised by the Department of Chemistry and Environmental Studies, Shillong College on *9th September 2016*.
4. Participated in the **Winter Adventure Camp** conducted by National Institute of Mountaineering and Allied Sports, Dirang, Arunachal Pradesh under the aegis of National Service Scheme from *12th to 21st November 2016*.
5. Participated in the **Workshop on “Swachhta”** organised by the National Service Scheme Cell, NEHU, Shillong on the *24th August 2016*.
6. Participated in the **Faculty Orientation Programme** organised by St. Anthony’s College, Shillong under the aegis of IQAC, SAC unit on the *20th April 2018*.
7. Participated in the **Orientation Programme on Student Engagement and Neural Mechanisms of Learning** at St. Anthony’s College, Shillong on *7th March 2020*.
8. Participated in the **State Level Workshop on “Challenges and Opportunities in NSS in the State of Meghalaya”** organised by the National Service Scheme Cell, NEHU in collaboration with State NSS Cell, Govt. of Meghalaya along with Regional Directorate of NSS, GOI, Ministry of Youth Affairs and Sports.
9. Participated in the **Virtual Conference on Education in the 21st Century: Adapting to a Changing World** organised by the Department of Education, St. Anthony’s College, Shillong on *1st to 2nd June 2020*.
10. Participated in the **Chemistry Webinar Series – I** conducted by Department of Chemistry, University of Science & Technology Meghalaya on *June 10 and 11, 2020*.
11. Participated in the **“A Time for Change” a webinar on Changing Roles of Teachers in a COVID-19 Afflicted World** organised by St. Anthony’s College, Shillong and Loyola College, Williamnagar, Meghalaya on *12th June 2020*.
12. Participated in the **National Webinar titled “Atmanirbharshil Bharat: Challenges and Opportunities”** organised by Dept. of Economics, S.B.M.S. College, Sualkuchi, Assam on the *19th June 2020*.
13. Participated in the **Science Academies’; Science Leadership Workshop** organised by Central University of Punjab, Bathinda, India from *June 22 to June 28, 2020*.
14. Participated in the **National Webinar on Chemistry Education: Prospects & Opportunities**, jointly organised by Dept. of Chemistry, Pandu College and ACT, North East Zone on the *26th June 2020*.
15. Participated in **National Webinar on Scintillating Chemistry** (an initiative of ACT-East Zone) organised by Association of Chemistry Teachers on *28th June 2020 (5:00PM to 8:00PM)*.
16. Participated in the **Faculty Enrichment Live Webinar: Edition 2 titled “Addressing Core Issues in Teaching”** organised by Dept. of Value Education and English, St. Anthony’s College, Shillong on *30th June 2020*.
17. Participated in the **International Webinar on Different Cloud Platforms**, jointly organised by Dept. of Computer Science of St. Anthony’s College, Shillong Meghalaya and St. Alphonsa College, Karinkal, Tamil Nadu, India on *14th July 2020*.

18. Participated in a **One Day Online National Seminar on Chemistry of Health & Wellness** organised by Dept. of Chemistry of Dr. Meghnad Saha College, Itahar, West Bengal, India on *6th July 2020*.
19. Participated in **Webinar on “Positive Mind, Positive Vibes, Positive Life – A Fight Against Depression”** organised by NSS Unit-8, KLE College of Pharmacy, Bengaluru in association with NSS Regional Directorate, Bengaluru, Ministry of Youth Affairs & Sports, GOI on *9th July 2020*.
20. Participated in the **International Webinar on “Advanced Materials for Sustainable Development”** organised by Dept. of Chemistry, Chouksey Group of Colleges, Lal Khadan, Masturi Rd., Bilaspur on *12th July 2020*.
21. Participating in a **Multi Session Web Workshop on “Designing Quality Multiple Choice Questions”** organised by Association of Chemistry Teachers from *1st to 10th August 2020*.
22. Participated in a **4 Days National Workshop on “Educational Video Making Using Smart Phones”** organised by the Dept of Mass Media, St. Anthony’s College, Shillong from *11th to 14th August 2020*.
23. Participated in the **Webinar on Tobacco Free Generation - Role of Educational Institutions** organised by Resource Centre for Tobacco Control (E-RCTC), PGIMER Chandigarh & North Eastern Indira Gandhi Regional Institute of Health and Medical Sciences (NEIGRIHMS), Shillong in collaboration with Dept. of Health & Family Welfare, Meghalaya and The Union South-East Asia on *14th August 2020*.
24. Participated in the **International Webinar on “Continuing Professional Development for Teachers”** organised by Sankardev College, Shillong, Meghalaya in collaboration with The English Language Teachers’ Association of India (ELTAI) Meghalaya Chapter on *17th and 18th September 2020*.
25. Participated in the **1-Day national Level Webinar on “Recent Advances in Nanomaterials Based Pesticides Sensor”** organised by Dept. of Chemistry, Union Christian College, Ri-Bhoi District, Meghalaya on *4th December 2020*.
26. Participated in the **online Annual S.N. Pal Memorial Lecture 2020 on “Understanding the Basic Concept of Nanomaterials”** organised by the Dept. of Chemistry, St. Anthony’s College on *11th December 2020*.
27. Participated in the **National Webinar on “National Education Policy 2020 and Its implication on Higher Education”** organised by IQAC and the Dept of Value Education, St. Anthony’s College, Shillong on *7th April 2021*.
28. Participated in the **International Webinar** conducted by Dept of Chemistry, University of Science & Technology Meghalaya on *May 21, 2021*.

PRESENTATIONS IN SEMINARS, WORKSHOPS, CONFERENCES AND OTHERS:

1. Presented a Poster at the **First DAE-BRNS Computational Chemistry Symposium 2019 (DAE-CCS-2019)** organized by Chemical Engineering Group, Bhabha Atomic Research Centre (BARC) at DAE Convention Centre, Anushaktinagar, Mumbai on the *7th to 9th November 2019*.

2. Presented a research paper entitled **“Theoretical insights into the atmospheric reaction of CH₂FCH₂OH with OH radical. Fate of CH₂FCHOH radical and ozone formation potential”** at the Two-Day International Conference (Virtual) on **“Emerging Areas in Science & Technology (EAST 2021)”** organized by the Royal School of Applied & Pure Science, Assam Royal Global University, Guwahati, Assam on the *1st and 2nd June 2021*.
3. Poster presentation at the **CRSI-NSC Meeting 2021: 27th CRSI National Symposium in Chemistry** organized by IISER, Kolkata from *26th to 30th September 2021*.

WORKSHOPS, SEMINARS AND OTHERS ORGANISED AND CO-ORDINATED:

1. Part of the Organizing Unit of the **Three- Day Residential Training Programme on Personality Development and Leadership** entitled **“Service With A Difference”** for NSS Volunteers organized by the NSS Unit of St. Anthony’s College, Shillong at SILOAM Retreat Centre, Umsawkhwan, Ri-Bhoi District from *17th to 19th December, 2015*.
2. Part of the Organizing Unit of the **Two-Day Programme on Voluntary Blood Donation** organized by the NSS Unit of St. Anthony’s College, Shillong in collaboration with Nazareth Hospital Blood Bank, NSS Cell NEHU, Meghalaya AIDS Control Society and State Blood Transfusion Council, Meghalaya at St. Anthony’s College Campus on the *14th and 15th November 2016*.
3. Part of the Organizing Unit of the **Two-Day Workshop on Drug Abuse Prevention** under NSS Unit St. Anthony’s College, Shillong and ICSSR (NERC), Shillong in collaboration with National Institute of Social Defence, Ministry of Social Justice and Empowerment, GOI, New Delhi on the *3rd and 4th March 2017*.
4. Part of the Organizing Unit of the **Two-Day Programme on Voluntary Blood Donation** organized by the NSS Unit of St. Anthony’s College, Shillong in collaboration with Nazareth Hospital Blood Bank, NEIGRIHMS Blood Bank, NSS Cell NEHU, Meghalaya AIDS Control Society and State Blood Transfusion Council, Meghalaya at St. Anthony’s College Campus on the *27th and 29th November 2017*.
5. Part of the Organizing Committee of the **Annual S.N. Pal Memorial Lecture 2018** organized by the Dept of Chemistry, St. Anthony’s College, Shillong on *7th April 2018*.
6. Part of the Organizing Unit of the **Three-Day Programme on Voluntary Blood Donation** organized by the NSS Unit of St. Anthony’s College, Shillong in collaboration with Nazareth Hospital Blood Bank, NEIGRIHMS Blood Bank, NSS Cell NEHU, Meghalaya AIDS Control Society and State Blood Transfusion Council, Meghalaya at St. Anthony’s College Campus on the *26th, 27th and 28th November 2018*.
7. Part of the Organizing Committee of the **Annual S.N. Pal Memorial Lecture 2019** organized by the Dept of Chemistry, St. Anthony’s College, Shillong on *18th April 2019*.
8. Part of the Organizing Unit of the **Two-Day Programme on Voluntary Blood Donation** organized by the NSS Unit of St. Anthony’s College, Shillong in collaboration with Nazareth Hospital Blood Bank, NEIGRIHMS Blood Bank, NSS Cell NEHU, Meghalaya AIDS Control Society and State Blood Transfusion Council, Meghalaya at St. Anthony’s College Campus on the *15th and 16th October 2019*.
9. Part of the Organizing Unit of the **Five-Day Residential Programme on “Capacity Building of Youth on Leadership and Personality Development through Life Skills”** under the National Service Scheme Special Programme for North-east Region sponsored

by the Ministry of Youth Affairs and Sports, GOI held at SILOAM Retreat Centre, Umsaw Khwan, Ri-Bhoi District on 22nd to 26th October 2019.

10. Part of the organizing unit of the **Online Orientation programme cum Awareness Programme on Voluntary Blood Donation** organized by the NSS Unit of St. Anthony's College, Shillong on the 8th July 2021.
11. Part of the Organising Committee of the **National Webinar on "Natural Products: Their Importance and Applications"** organized by the Dept of Chemistry St. Anthony's College, Shillong on the 27th November 2021.

AWARDS / RECOGNITIONS:

1. **Certificate of Commendation** in recognition to the contributions to the community during COVID-19 pandemic from National Service Scheme Cell, North Eastern Hill University, Shillong, Meghalaya.
2. **Honorary Appreciation** in recognition to the contribution and fortitude towards the Humanitarian cause and exemplary work done at the COVID Pandemic presented by the Indian Society for Training and Development (ISTD) Guwahati Chapter and "ARHAN" (Association of Reforms for Healthy Advancement of Nation).
3. **Winner of the Best Poster Award** in the ACS-CRSI Joint Poster Session hosted by the SciMeetings at the CRSI-NSC Meeting 2021: 27th CRSI National Symposium in Chemistry organized by IISER, Kolkata from 26th to 30th September 2021.