

ACTIVITIES CARRIED OUT UNDER STAR COLLEGE SCHEME, 2019 - 2020

DEPARTMENT OF CHEMISTRY, PACHHUNGA UNIVERSITY COLLEGE

List of projects undertaken by students,

Projects undertaken by Department of Chemistry:

- i) Assessment of Heavy Metal Contamination in Road-Side Sediments within Aizawl South Area.
- ii) Assessment of the Phytoremediation Efficiency of Plants for Toxic Heavy Metals.
- iii) Assessment of the total, soluble and insoluble oxalate contents of traditional Mizo foods (vegetables).
- iv) Extraction of essential oil from leaves of *Tithonia diversifolia* in Mizoram
- v) Conversion of food waste to compost using IMO
- vi) Compost as adsorbent in the removal of organic dye
- vii) Preparation of orange peel ash magnetic nanoparticles and its characterisations
- viii) Aldol reaction using orange peel ash magnetic nanoparticle as a catalyst
- ix) Investigation of the presence of nitrogen base insecticide present in vegetables and fruits from the market

Summer/winter school organized by Chemistry Department:

- i) International Level Winter School for BSc Students, organized by Department of Chemistry during Dt 9th -13th December, 2019

List of exhibitions/seminars/training courses conducted by the college :

Department of Chemistry

- i) Special Talk on Career guidance on Dt 2. 8. 2019
- ii) Special Talk on Entrepreneurship on Dt 6. 9. 2019
- iii) Outreach programme with St Joseph Higher Secondary School and Govt. Central Higher Secondary School on Dt 26. 9 2019
- iv) 5 days International Level Winter School for BSc Students during Dt 9 – 13. 12. 2019

9Name, designation, host institute of guest faculty invited :

- i) Dr K. Pachhunga, Member of Legislative Assembly and Vice Chairman, Bamboo Development Board, Govt. of Mizoram
- ii) Dr Vanlalhlana, MLA, Govt. of Mizoram and Asst. Professor, Dept. of Commerce, PUC
- iii) Dr Vanlaltanpuia, Chairman, Mizoram Youth Commission, Govt. of Mizoram
- iv) Dr Tawnenga, Principal, PUC

- v) Dr Lalthazuala Rokhum, Project Fellow, Dept. of Chemistry, Cambridge University, UK
- vi) Pu Vanhela Pachuau, IAS (Rtd.) Former Chief Secretary, Govt. of Mizoram
- vii) Mr Vanneihluanga, Social Worker and Entrepreneur
- viii) Mr. Benjamin Lianzama, Branch Manager, MRB, Treasury Sq. Aizawl
- ix) Dr H. Lahlhenmawia, Head of Department, Dept. of Pharmacies, RIPANS
- x) Dr H. Lalthanzara, Associate Professor, Dept. of Zoology, PUC
- xi) Mr Mr V. Lalchhandama, Dept. of Chemistry, IIT Kanpur
- xii) Dr Lalduhsanga Pachuau, Asst. Professor, Assam University
- xiii) Dr Laldinpuia, Asst. Professor, Dept. of Geology, PUC
- xiv) Pu R. Lalhmachhuana, Manager, SBI, Aizawl, Mizoram
- xv) Dr Saichampuii, Asst. Professor, Dept. of Psychology, PUC
- xvi) Ms Lalthantluangi Sailo, Asst. Professor, Dept. of Psychology, PUC

List of New Practicals/demonstrations introduced in different departments in last one year :

- i) Extraction of essential oils from different plants
- ii) Production of biodiesel using different type of catalysts
- iii) Isolation of caffeine from tea leaves collected from different parts of Mizoram
- iv) Isolation of casein and lactose from different breed of cow in Mizoram
- v) Isolation of nicotine from tobacco leaves collected from different parts of Mizoram
- vi) Preparation of benzyl alcohol from benzaldehyde

Details of equipment purchased in each department from DBT grant.

(item, no., cost, date of order placed, purchase/installation)

Sl. No.	Item	Nos.	Cost	Date of Order placed	Purchase/installation
1	Double stage water distillation set	1	Rs 76081	13. 9. 2019	Purchased and Installed
2	Muffle furnace	1	Rs 99750	13. 9. 2019	Purchased and Installed
3	Microprocessor flame photometer	1	Rs 93450	13. 9. 2019	Purchased and Installed
4	Incubator shaker	1	Rs 98700	13. 9. 2019	Purchased and Installed
5	Hot air oven	1	Rs 89250	13. 9. 2019	Purchased and Installed
6	Polarimeter	1	Rs 89786	13. 9. 2019	Purchased and Installed

7	Clevenger apparatus	3	Rs 19149	13. 9. 2019	Purchased and Installed
8	Soxhlet apparatus	3	Rs 29030	13. 9. 2019	Purchased and Installed
9	Corning digital Stirring hot plates	2	Rs 85602	13. 9. 2019	Purchased and Installed
10	Digital overhead stirrer	1	Rs 87150	13. 9. 2019	Purchased and Installed
11	Magnetic stirrer with hot plates	4	Rs 35700	13. 9. 2019	Purchased and Installed
12	Heating mentle	6	Rs 33390	13. 9. 2019	Purchased and Installed

Qualitative improvements due to DBT support

Please highlight (5 salient lines)

- i) Introduction of research-based projects for the students
- ii) Introduction of new practicals which could not be carried out in the department before

2021-2022

1. List of projects undertaken by students:

- i) Preparation of biomass waste-derived magnetic nanoparticles and its characterizations and applications
- ii) Conversion of food waste to compost using IMO
- iii) Compost as adsorbent in the removal of organic dye
- iv) Recycling of PET waste using biomass waste-derived heterogeneous catalysts
- v) Phytochemical studies of different species of Medicinal plants in Mizoram (continuation)
- vi) Assessment of the Phytoremediation Efficiency of Plants for Toxic Heavy Metals. (Continuation)
- vii) Assessment of the total, soluble and insoluble oxalate contents of traditional Mizo foods (Continuation).

2. Industrial visits by students, summer training in last one year:

- i) Local Exposure Programme at Forensic Science Laboratory (FSL), Government of Mizoram on Dt 5. 4. 2022

3. Projects undertaken by Department: NIL

4. Summer/winter school organized: NIL

5. Training received by faculty from participating departments:

- i. Dr. Chanambam Victory Devi attended Short Term Course (Online) on Research and Publication Ethics organized by HRDC, MZU during 1st – 7th October 2021.
- ii. Dr. Chanambam Victory Devi attended Five Day International Online Faculty Development Programme on Soft Skills for Capacity Building organized by Joseph's

Academy of Soft skills, St. Joseph College, Tamil Nadu during 8th – 12th November 2021.

- iii. Dr. K. Vanlalainpuia attended Faculty Development Programme on Building Sustainable and Resilient Food Security and Food Processing System organized by AICTE Training & Learning Academy, N. Delhi during 25th – 29th October 2021.
6. List of exhibitions/seminars/training courses conducted:
- i) Meet the Alumni on 9. 9. 2021
 - ii) Invited Talk on Career Guidance on Dt 4. 4. 2022
7. Name, designation, host institute of guest faculty invited
- i) Mr. V. Lalchhandama, Assistant Audit Officer, Principal Accountant General, AIID, Bangalore
 - ii) Mr. R. Laldintluanga, Team Leader, Telligent LIP, BANGALORE
 - iii) Mr. Vanneikima, MSc Student, IIT Bhubaneswar
 - iv) Mr. Lalnunenga, MSc Students, IIT, Mandi
 - v) Mr. Samson Lalhmangaihzuala, JRF, Research Scholar, MZU
 - vi) Mr. CVL Hmingmawia, JRF, Research Scholar, MZU
 - vii) Mr. C. Lalmuanpuia, JRF, Research Scholar, MZU
 - viii) Mr. Joseph Lalhruitluanga, MSc Student, BHU
 - ix) Dr R. Lalneihpuii, Assistant Professor, Department of Chemistry, Institute of Science, Banaras Hindu University
8. Date of Department committee meeting:
- i. 26. 07. 2021
 - ii. 21. 08. 2021
 - iii. 24. 09. 2021
 - iv. 17. 01. 2022
9. List of New Practicals/demonstrations introduced in different departments in last one year:
- i) Investigation of the UV absorbance spectra for different organic compounds at different concentrations.
 - ii) Preparation of TLC and its utilization in compound separations
 - iii) Purification of a mixture of compound using column chromatography
 - iv) Investigation of the conversion of cane sugar in the presence of acid
10. Details of books & journals subscribed from DBT grant: NIL
11. Qualitative improvements due to DBT support: Please highlight (5 salient lines) (include department pass percentage in year 2019 - 22 with rank holders name and ranks):
- i) Pass percentage of the students has increased after funding from DBT Star College Scheme (68% in 2019, 82.6% in 2020, 95.5% in 2021 and 96.4% in 2022).

- ii) Students were able to perform hands on training on different research techniques and many new experiments were introduced which could not be carried out before funding from DBT Star College Scheme.
- iii) Many University rank holders were produce as shown below:

Mizoram University Rank Holders during 2019 - 2022 from Chemistry Department, PUC

Year: 2019

Roll No.	Name	CGPA	Grade	Univ. Rank
1601BS066	Ngurthanpuia	8.840	A+	1
1601BS062	Lalmalsawmdawngliana	8.240	A+	4
1618BS009	Saihmingliana	8.050	A+	5
1601BS085	Vanneikima	7.940	A	6
1601BS065	Malsawmtluanga	7.700	A	8
1601BS059	Joel C. Lallianmawia	7.690	A	9

Year: 2020

Roll No.	Name	CGPA	Grade	Univ. Rank
1701BS075	Rebek Lalhruaitluangi	9.26	O	1
1701BS045	C. Lalramthara	8.75	A+	2
1701BS056	Immanuel L.C. Laihlutpuii	8.74	A+	3
1701BS054	Fidelia Lalrindiki	8.46	A+	4
1701BS059	Lallawmzuali	8.32	A+	6
1701BS060	Lalnunziri	8.25	A+	7

Year: 2021

Roll No.	Name	CGPA	Grade	Univ. Rank
1801BS080	H Zonunkimi	8.80	A+	4
1801BS166	Lalrinpuia	8.56	A+	7
1801BS211	PC Zoremsanga	8.49	A+	9

Year: 2022

Roll No.	Name	CGPA	Grade	Univ. Rank
1901BS275	R. Lalruatsangi	9.58	O	1
1901BS193	Lalnunfela Varte	9.23	O	2
1901BS320	Vanlalnunmawia Ngente	9.19	O	3
1901BS130	Hmingthanhlui	8.99	A+	4
1901BS328	Vanlalthlanawma	8.75	A+	5
1901BS212	Lalrinmawii Khiangte	8.75	A+	6
1901BS122	H. Vanlalfela	8.70	A+	7
1901BS282	Remruatpuia	8.68	A+	8

12. Problems faced, if any, in implantation of the programme and utilization of DBT grant (in two-three lines):

Lockdown due to covid-19 pandemic has derailed much of our work plan. Compare with 2019-2020 session, our activities under DBT Star College Scheme have declined considerably as students could not attend classes properly. However, many activities were still carried out through online mode.

13. Result three years comparison for overall report. (Pass percentage and rank holders' number, gold medalist name if available.)

Table 1: Overall Results of Final Semester (2017 – 2022)

VI/Final Semester	No. of students appeared	No. of students passed	Pass Percentage	Univ. Rank Holders	No. of Rank Holders
2017	20	14	70.0	1,2,4,5,7,8,10	7
2018	31	20	64.5	2,4,7,8,9,10	6
2019	25	17	68.0	1,4,5,6,8,9	6
2020	23	19	82.6	1,2,3,4,5,6,7,8,9,10	10
2021	22	21	95.5	4,7,9	3
2022	28	27	96.4	1,2,3,4,5,6,7,8	8

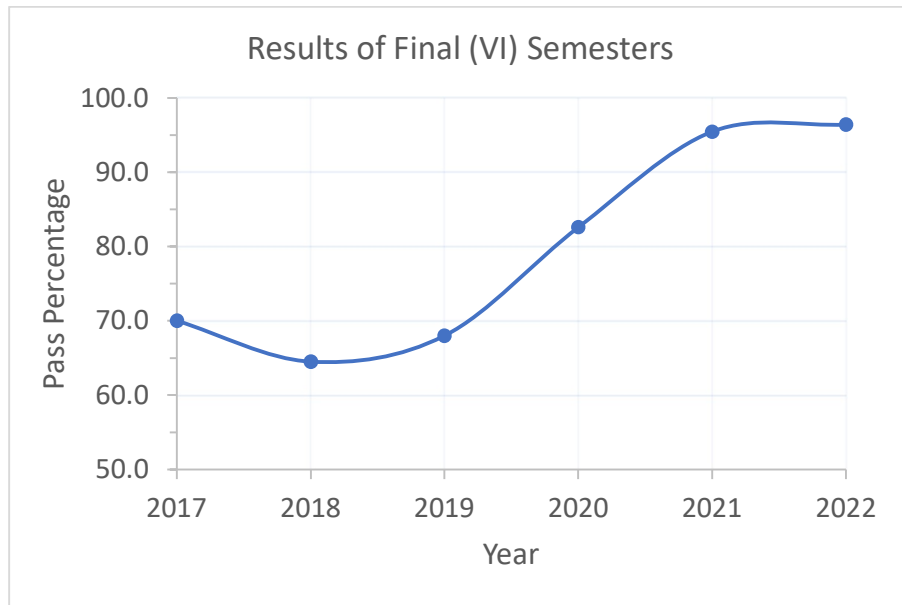
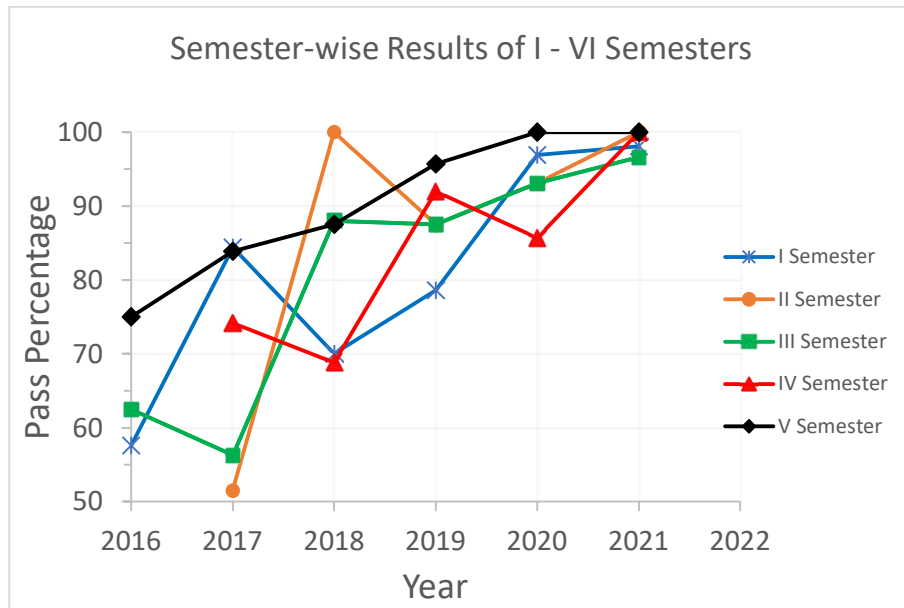


Figure 1: Overall results of final semester from 2017 - 2022

Table 2: Semester-wise Results of I – VI Semester (Odd Semester 2016 – Odd Semester 2021)

Year of Exam	Semester	Pass Percentage
Odd 2016	I, III, V	57.6%, 62.5%, 75.0%
Even 2017	II, IV, VI	51.5%, 74.2%, 100%
Odd 2017	I, III, V	84.4%, 56.3%, 83.9%
Even 2018	II, IV, VI	100%, 68.8%, 84.0%
Odd 2018	I, III, V	70.0%, 88.0%, 87.5%
Even 2019	II, IV, VI	87.5%, 92.0%, 84.0%
Odd 2019	I, III, V	78.6%, 87.5%, 95.7%
Even 2020	II, IV, VI	93.1%, 85.7%, 100%
Odd 2020	I, III, V	96.9%, 93.1%, 100%
Even 2021	II, IV, VI	100%, 100%, 100%
Odd 2021	I, III, V	98.1%, 96.6%, 100%



14. Students' progression and employment status of the years 2019-2022:

- i. Vanneikima (2019 batch) cleared JAM and joined MSc course at IIT Kanpur.
- ii. Lalnunenga (2020 batch) cleared JAM and joined MSc course at IIT Mandya.
- iii. Lalnunfela Varte (2022 batch) cleared JAM and was selected to join PhD Integrated programme at IISc, Bangalore.
- iv. Vanlalnunmawia Ngente (2022 batch) cleared JAM and was selected to join MSc course at IIT, Madras.
- v. More than 60% of our student who pass out from our department during 2019-2022 joined MSc programme at Mizoram University

Kindly include photos and charts if available, send soft copy of report to: vana@pucollege.edu.in.

With funding from DBT Star College Scheme, The Department of Chemistry, Pachhunga University College was able to carry out a number of activities in the Department during 2019-2020. Following is a short report on such activities carried out during the academic session 2019-2020:

A. A brief report on organising special talk on career guidance: Dr K. Pachhunga, MLA, Govt. of Mizoram and Vice Chairman, Bamboo Development Board was invited to give a special talk on career guidance on Dt 2. 8. 2019. The programme was organised at Seminar Hall, PUC; all the Chemistry Core students (1st, 3rd and 5th Semester students) attended this special programme and following is the detail programme:

Chairman : Dr K. Vanlaldinpuia, Asst. Professor, PUC
Welcome Speech : Dr Thanhmingliana, Asst. Professor, PUC
Presentation : Dr K. Pachhunga, MLA, Govt. of Mizoram
Speech : Dr R. Pathak, Associate Professor
Vote of Thanks : Dr Grace Skariah, HOD, Dept. of Chemistry, PUC

Picture 1: Dr Thanhmingliana delivering a welcome speech



Picture 2: Dr K. Pachhunga, MLA giving presentation and delivering a special talk on career guidance



Picture 3: Dr K. Pachhunga with staff of Dept. of Chemistry, PUC



B. A brief report on special talk on Entrepreneurship: Dr Vanlalhlana, MLA, Govt. of Mizoram & Asst. Professor, Dept. of Commerce, PUC was invited to give a presentation on a

very important topic “Entrepreneurship” on 6th September, 2019. It was held at Science building and all the Chemistry Core students and Teachers were present. The programme was very lively and fruitful as students asked a variety of questions: - from starting up own businesses to how to be successful in life! Following is the programme:

Chairman : Dr C. Lalhriatpuia, Asst. Professor, PUC
Welcome speech : Dr Grace Skariah, HOD, Dept. of Chemistry
Solo : Jacob Zodinpuia, 5th Semester Student
Presentation : Dr Vanlalhlana, MLA, Govt. of Mizoram
Discussion and interaction
Vote of Thanks : Dr Thanhmingliana, Asst. Professor, PUC
Refreshment

Picture 1: Dr Grace Skariah, HOD delivering a welcome speech



Picture 2: Dr Vanlalhlana giving presentation on Entrepreneurship



Picture 3: A lively interaction with the students



C. A brief report on organising outreach programme: An outreach programme was organised by the Department of Chemistry, PUC on Dt 26. 9. 2019 at the Department with funding from DBT Star College Scheme. Forty (40) students each from Govt Central Higher Secondary School, College Veng and St. Joseph Higher Secondary School, Bawngkawn were invited to take part in this programme and Dr Grace Skariah, Dr R. Pathak, Dr Thanhmingliana, Dr C. Lalhriatpuia, Dr K. Vanlaldinpuia and Dr Lalchhingpuii gave presentation and/or demonstrations on some experiments which could not be carried out in their schools.

Picture 1: 40 students from Govt Central Higher Secondary School, College Veng



Picture 2: With students from St. Joseph Higher Secondary School



D. A brief report on organising International Level Winter School for BSc students: A five (5) days International Level Winter School for BSc students was organised at PUC Seminar Hall during 9th -13th December, 2019. The programme was jointly organised by Department of Chemistry, PUC and Department of Geology as part of Inter-Departmental activity.



The inauguration programme was graced by Dr Vanlaltanpuia, MLA & Chairman, Mizoram Youth Commission as a Chief Guest and Dr Tawnenga, Principal, PUC as a Guest of Honour. Dr Lalthazuala Rokhum, Department of Chemistry, Cambridge University, UK gave a key note address. During this Winter School, experts from different fields such as Civil service, Entrepreneur, banking sector, scientific researcher, psychology, etc were invited to give special talk and/or presentations. More than 150 BSc and MSc students from different parts of Mizoram and several teachers from different departments attended this school and the detail programme is enclosed herewith.

Picture 1: Inauguration Programme chaired by Dr Saitluanga, HOD, Dept. of Geology



Lists of speaker/presenter in this Winter School 2019 is as follows:

1. Dr Vanlaltanpuia, Chairman, Mizoram Youth Commission as Chief Guest
2. Dr Tawnenga, Principal, PUC as Guest of Honour
3. Dr Lalthazuala Rokhum, Dept. of Chemistry, Cambridge University, UK
4. Pu Vanhela Pachuau, IAS (Rtd.) Former Chief Secretary, Govt. of Mizoram
5. Dr Vanlalhlana, MLA & Assistant Professor, PUC
6. Mr Vanneihtluanga, Social Worker and Entrepreneur
7. Mr. Benjamin Lianzama, Branch Manager, MRB, Treasury Sq. Aizawl
8. Dr H. Lalhlemawia, Head of Department, Dept. of Pharmacies, RIPANS
9. Dr H. Lalthanzara, Associate Professor, Dept. of Zoology, PUC
10. Mr Mr V. Lalchhandama, IIT Kanpur
11. Dr Laldusanga Pachuau, Asst. Professor, Assam University
12. Dr Laldinpuia, Asst. Professor, Dept. of Geology, PUC
13. Pu R. Lalmachhuana, Manager, SBI
14. Dr Saichampuii, Asst. Professor, Dept. of Psychology
15. Ms Lalthantluangi Sailo, Asst. Professor, Dept. of Psychology

Picture 2: Chief Guest and Guest of Honour



Picture 3: Dr Lalthazuala Rokhum and Co-ordinator



Picture 4: Audiences



Picture 5: Organizer with invitees



Picture 6: Dr Tawnenga, Principal giving a speech



**WINTER SCHOOL 2019
For BSc Students**

Venue : PUC Seminar Hall

Date : 9th – 13th December 2019

Organized by

Department of Chemistry & Department of Geology, PUC

Funded by: DBT Star College Scheme

PROGRAMME

Dt 9. 12. 2019

Morning session : 10:00 AM – 12:00 Noon

10:00 AM – 11: 00 AM : Registration

11:00 AM – 12: 00 Noon : Inauguration Programme

Chairman : Dr Saitluanga Sailo, Asso. Professor & Head, Dept. of Geology
Chief Guest : Dr Vanlaltanpuia, Chairman, Mizoram Youth Commission
Guest of Honour : Dr Tawnenga, Principal, PUC
Welcome Speech : Dr Thanhmingliana, Asst. Professor, Dept. of Chemistry
Solo : Lawmsangkimi
Reports : Dr K. Vanlaldinpuia, Co-ordinator
Speech : Chief Guest
Solo :
Speech : Guest of Honour
Vote of Thanks : Dr Laldinpuia, Asst. Professor, Dept. of Geology

Refreshment Refreshment

Afternoon Session : 01:00 PM – 03:30 PM

Chairman : Dr C. Lalhriatpuia
Presentation : Pu Vanhela Pachuau, IAS (Rtd.) Former Chief Secretary
Interaction and Discussion

Dt 10. 12. 2019

Morning Session : 10:00 AM – 12:00 Noon

Chairman : Mr. V. Lalchhandama
Presentation : Dr Vanlalhlana, MLA & Assistant Professor, PUC
Topic : *Entrepreneurship*
Interaction and Discussion

Afternoon Session : 01:00 PM – 03:30 PM

Chairman : Dr K. C. Lalmalsawmzauva
Motivational Speech : Pu Vanneihluanga
Interaction and Discussion

Dt 11. 12. 2019

Morning Session : 10:00 AM – 12:00 Noon

Chairman : Dr V. Vanthangliana
Presentation 1 : *Awareness programme on Banking*
Resource person : Benjamin Lianzama, Branch Manager, Treasury Sq. Aizawl
Presentation 2 : *Drug discoveries from natural sources*
Resource person : Dr H. Lalhlemawia, Head, Dept. of Pharmacies, RIPANS

Afternoon session : 01:00 PM – 4:00 PM

Chairman : Dr Thanhmingliana
Presentation 1 : *Research methodology in Sciences*
Resource person : Dr H. Lalthanzara, Associate Professor, Dept. of Zoology
Presentation 2 : *JAM, SSC examination and scholarships*
Resource person : Mr V. Lalchhandama, IIT Kanpur

Dt 12. 12. 2019

Morning session : 10:00 AM – 12:30 Noon

Chairman : Dr Lalchhingpuii
Presentation 1 : *Application of nanotechnology for improving herbal drug delivery*
Resource person : Dr Laldusanga Pachuau, Asst. Professor, Assam University
Presentation 2 : *Biofuels for future energy security*
Resource person : Dr Lalthazuala Rokhum, University of Cambridge & NIT, Silchar, Dept. of Chemistry

Afternoon session : 01:30 PM – 04:00 PM

Chairman : Dr H. Lawmkima
Presentation 1 : *Environmental issues regarding disaster and management*
Resource person : Dr Laldinpuia
Presentation 2 : *Career prospects in State Bank*
Resource person : R. Lalmachhuana

Dt 13. 12. 2019

Morning session : 10:00 AM – 12:00 Noon

Chairman : Mr V. Lalchhandama
Presentation : Dr Saichampuii, Asst. Professor, Dept. of Psychology
Topic : *Interpersonal and communication skills*

Afternoon session : 01:00 PM – 04:00 PM

Chairman : Dr Thanhmingliana
Presentation : Ms Lalthantluangi Sailo, Asst. Professor, Dept. of Psychology
Topic : *Critical thinking and decision making skills*

Closing function : 04:00 PM – 04:30 PM

Chairman : Dr C. Lalhriatpuia
Distribution of Certificates
Vote of Thanks : Dr K. Vanlaldinpuia

E. Brief report of the Special Talk on Preservation of Crime Scene

Mrs Ammie Lalnunpuii, JSO (DNA), Forensic Science Laboratory, Mizoram was invited to give a special talk on Preservation of Crime Scene on Dt 19th March 2021. The programme was organised at Science Building Room No. 3, PUC for the 5th Semester Chemistry core students. Dr K. Vanlaldinpuia chaired the programme and a lively discussion programme follows after the presentation. *The programme was funded by DBT Star College Scheme.*



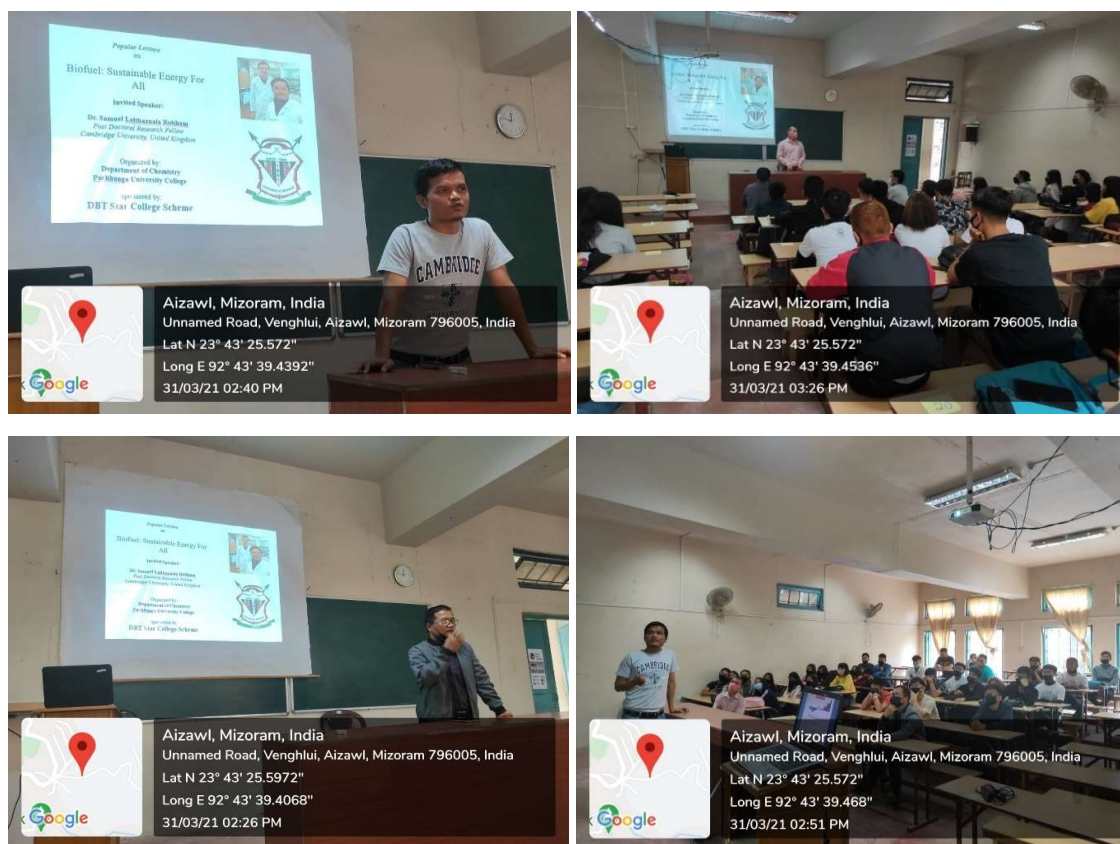
F. Brief report of Popular Lecture on ‘Biofuel: Sustainable Energy for All’

Dr Samuel Lalthazuala Rokhum, Post-Doctoral Fellow at Cambridge University, UK and Assistant Professor, NIT, Silchar was invited to give a popular lecturer on ‘Biofuel: Sustainable Energy for All’ on 31st March 2021. It was held at Science Building; Room No. 3 and all the chemistry core students and teachers were present. The programme was funded by *DBT Star College Scheme.*

Following is the detailed programme:

Chairman : Dr. C. Lalhriatpuia, Assoc. Professor, PUC
Welcome speech : Dr. Thanhmingliana, HOD, Dept. of Chemistry
Presentation : Dr. Samuel Lalthazuala Rokhum
Discussion and interaction
Vote of Thanks : Dr K. Vanlaldinpuia, Asst. Professor, PUC

Refreshment



G. A brief report of “Meet the Alumni” programme

A career guidance programme entitled “*Meet the Alumni: Life after BSc*” was organized by the Department of Chemistry, PUC on 9th September, 2021 (7:00 - 9:00 PM) through online mode with funding from DBT Star College Scheme. Many former students of the Department of Chemistry, PUC were invited as speakers to give talk on different topics. The programme was a grand success and more than 130 students and alumni members attended this seminar. Detailed programme is given below:

Host: Dr K. Vanlaldinpuia

Welcome Address: Dr Thanhmingliana, HOD

Speech from:

V. Lalchandama, Assistant Audit Officer, Principal Accountant General, AIID, Bangalore: *Opportunity through SSC*

R. Laldintluanga, Team leader, Telligent LIp, Bangalore: *Opportunity in Corporate World*

Vanneikima, MSc student, IIT Bhubaneswar: Campus and education life in IIT: *My experiences at IIT*

Lalnunenga, MSc, IIT, Mandi: *JAM Exams: How much do you need to know?*

Samson Lalmangaihuzuala, JRF, MZU (NEHU alumni): *NEHU admission procedure and research life*

CVL Hmingmawia, JRF, MZU (UoH alumni): *Admission and life at University of Hyderabad*

C. Lalmuanpuia, JRF (MZU): *Preparation for NET exam*

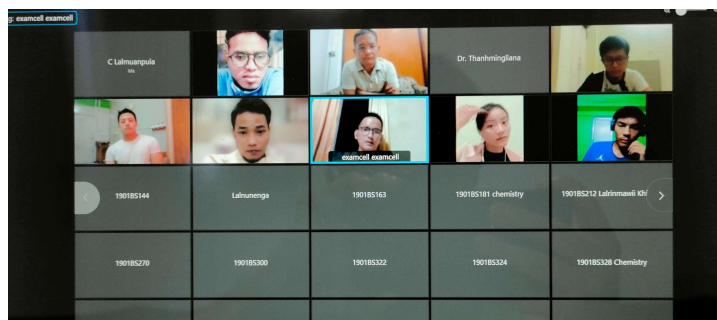
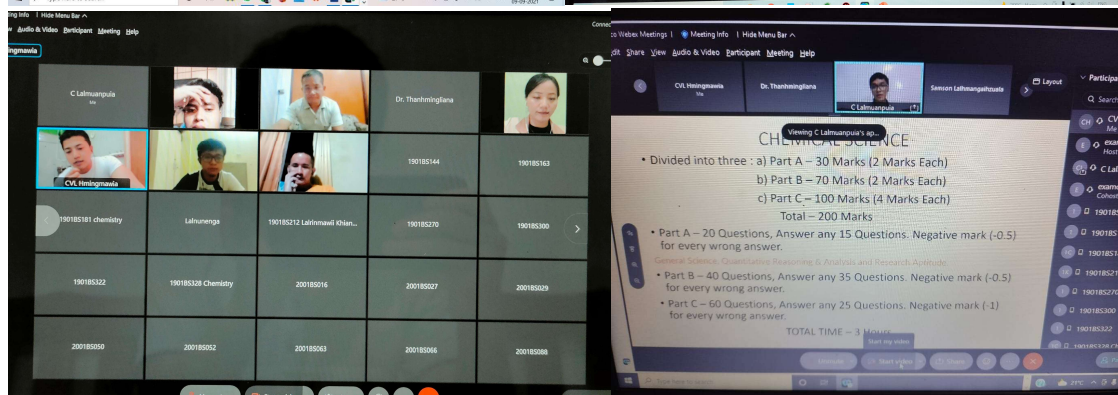
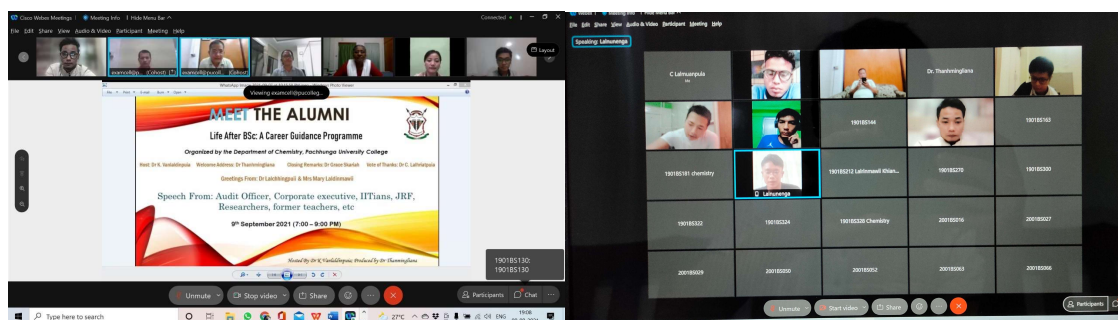
Joseph Lalhrualtuanga: *Admission procedure and life at BHU*

Albert Rorelliana: *How to make friends and influence people*

Closing Remarks: Dr Grace Skariah, Former HOD

Vote of thanks: Dr C. Lalhriatpuia

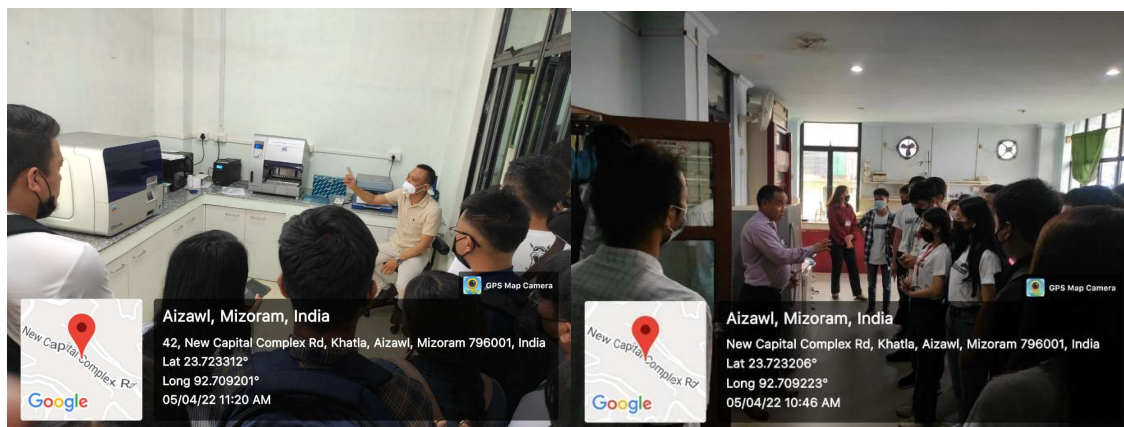
The funding from DBT Star College Scheme is gratefully acknowledge for making this programme successful.

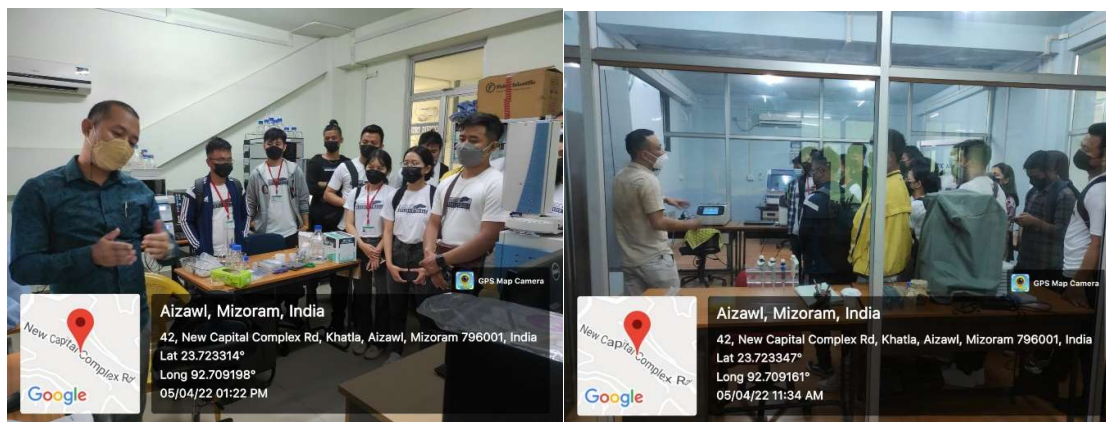


H. Brief report of local exposure programme at Forensic Science Laboratory (FSL)

A local exposure programme at Forensic Science Laboratory (FSL), Government of Mizoram was organised by the Department of Chemistry, Pachhunga University College on 5th April, 2022. Twenty-three (23) 6th Semester Chemistry Core Students accompanied by three (3) faculty members visited the FSL. Dr. R.Lawmzuali, Jr. Scientific Officer, Chemistry Division, FSL, the designated Liaison Officer for the visit received them warmly and guided them through the whole exposure programme.

The participants were taken to eight (8) divisions namely, Toxicology Division, Questioned Document Division, DNA Division, Photography Division, Fingerprint Division, Ballistics and Toolmarks Division, Cyber Forensic Division and Chemistry Division. In each division, the appointed scientific officers gave presentation on their works and conducted demonstration on instruments such as High-Performance Liquid Chromatography (HPLC), Gas Chromatography-Mass Spectrophotometer (GC-MS), UV-Vis Spectrophotometer, RTPCR, DNA extraction technique, etc. The programme was funded by DBT Star College Scheme.

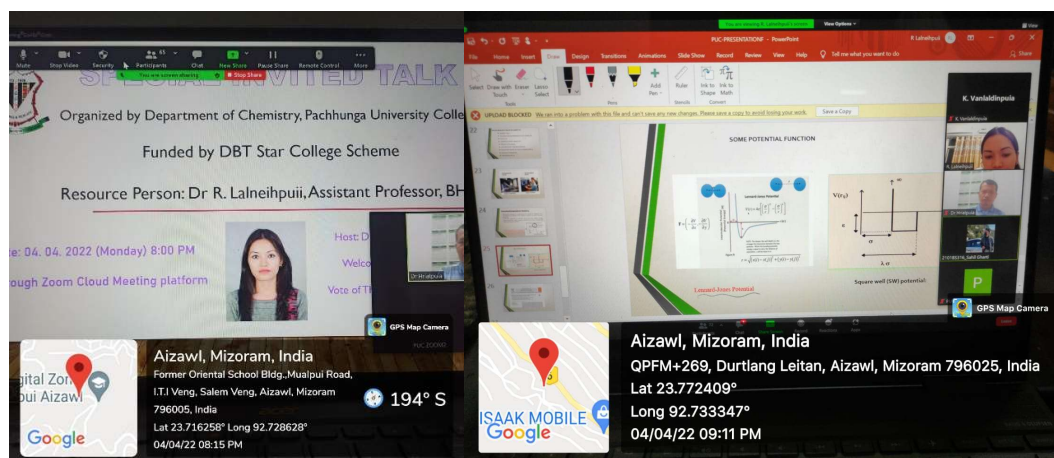




I. A brief report of Invited Talk

The Department of Chemistry, Pachhunga University College organized an Invited Talk on Dt 4. 4. 2022 between 8:00 – 9:30 PM through Zoom Cloud Meeting platform. The meeting was chaired and hosted by Dr C. Lalhriatpuia, Associate Professor, Department of Chemistry. Dr Thanhmingliana, Head of Department delivered the welcome address. Dr R. Lalneihpuii, Assistant Professor, Department of Chemistry, Institute of Science, Banaras Hindu University was invited as a resource person and she gave a lively and graphic presentation on “Steps to your dream career”. A fruitful discussion involving all the participants follows. The programme was funded by DBT Star College Scheme and 71 students and 3 faculty members attended this special talk. Detailed programme is given below:

- Chairman/Host : Dr C. Lalhriatpuia, Associate Professor, PUC
- Welcome Address : Dr Thanhmingliana, HoD, Dept. of Chemistry, PUC
- Presentation : Dr R. Lalneihpuii, Asst. Professor, BHU
- Discussion :
- Vote of Thanks : Dr K. Vanlaldinpuia, Assistant Professor, PUC



Theoretical/Computational Chemistry

- Theoretical chemistry is mathematical description of chemistry. It is development of algorithms and computer programs to predict chemical properties.
- It calculate properties of molecule such as structure, relative energy, charge distribution, dipole moment, vibrational frequency, reactivity and other spectroscopic quantity.

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