


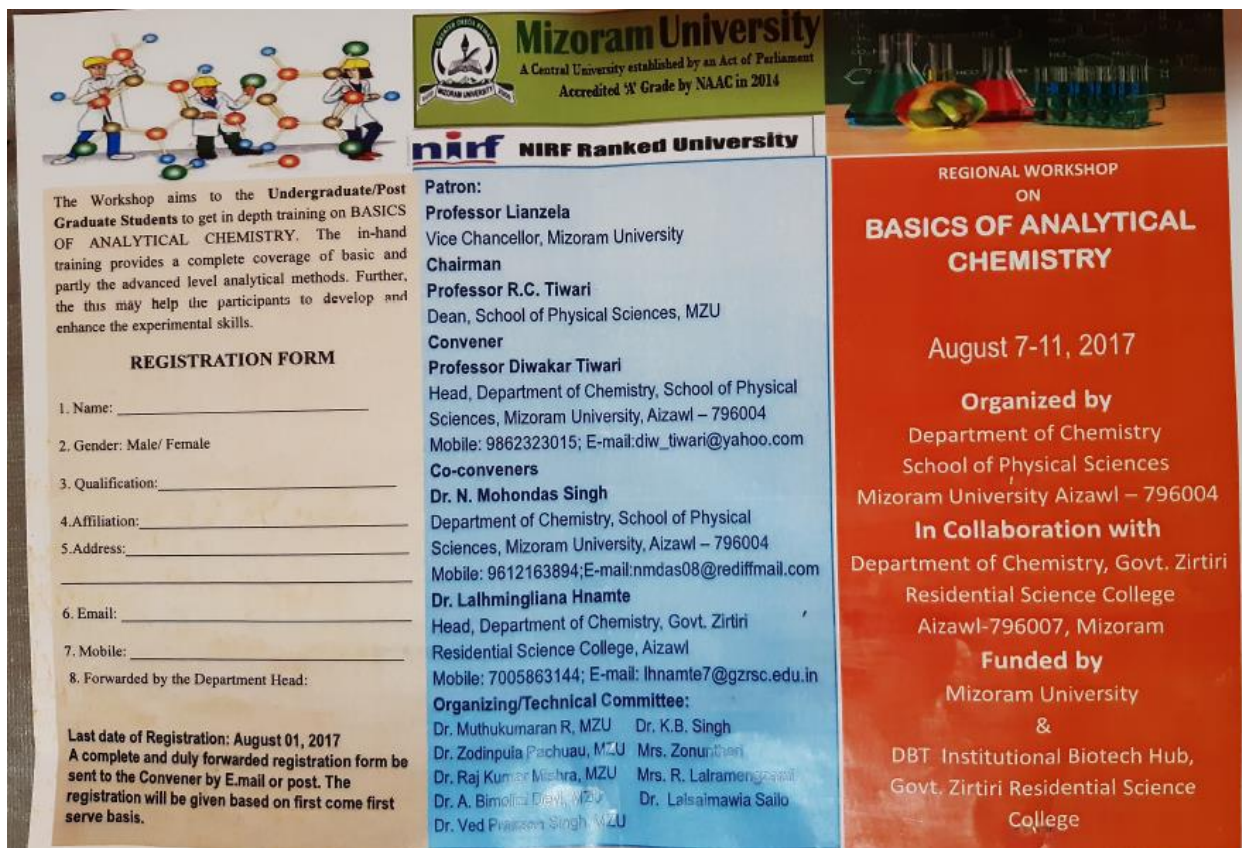
**COLLABORATION AND LINKAGE WITH OTHER
INSTITUTION/ORGANISATION**

2017-2018

Sl. No	Title of Collaborative activity	Collaborating Agency	Name of Participants	Year of collaboration
1	Regional Workshop on Analytical Chemistry	Mizoram University and DBT Institutional Biotech Hub, Zirtiri Residential Science College	Department of Chemistry, Mizoram University in collaboration with Department of Chemistry, Zirtiri Residential College	2017
2	One day workshop on Earthquake hazard in Mizoram	Geological Society of Mizoram	Geology department	2017
3	Online Training Spoken tutorial	IIT Mumbai	bca students	17/01/2018 30/06/2018
4	Seminar Career Advancement Programme	Central YMA, Mizoram	1st Semester Students	28-08-2017
5	Winter Class	State Legal Services Authority HRDC, MZU And Pollution Control Board	Environmental Research technique for 3 months course	01/12/2017 16/02/2018
6	Handson Training Molecular Research Technique	State DBT Biotech Hub, MZU	outgoing students	31/05/2018 06/06/2018


 Prof. B. ZOLIANA
 Principal
 Govt. Zirtiri Resl. Sc. College
 Aizawl : Mizoram

1. Brochure and report of Regional Workshop on Analytical Chemistry organised by Department of Chemistry, Mizoram University in collaboration with Department of Chemistry, Zirtiri Residential College



The brochure is divided into three main sections. The top left features an illustration of three scientists in lab coats working with a molecular model. The top center displays the Mizoram University logo and name, along with accreditation information. The top right shows laboratory glassware. The middle left section contains a registration form with eight numbered fields. The middle right section lists the workshop's patron, convener, and co-convener. The bottom right section provides details on the organizing and technical committees.

Mizoram University
A Central University established by an Act of Parliament
Accredited 'A' Grade by NAAC in 2014

nirf NIRF Ranked University

The Workshop aims to the Undergraduate/Post Graduate Students to get in depth training on BASICS OF ANALYTICAL CHEMISTRY. The in-hand training provides a complete coverage of basic and partly the advanced level analytical methods. Further, the this may help the participants to develop and enhance the experimental skills.

REGISTRATION FORM

1. Name: _____

2. Gender: Male/ Female

3. Qualification: _____

4. Affiliation: _____

5. Address: _____

6. Email: _____

7. Mobile: _____

8. Forwarded by the Department Head: _____

Patron:
Professor Lianzela
Vice Chancellor, Mizoram University
Chairman
Professor R.C. Tiwari
Dean, School of Physical Sciences, MZU
Convener
Professor Diwakar Tiwari
Head, Department of Chemistry, School of Physical Sciences, Mizoram University, Aizawl – 796004
Mobile: 9862323015; E-mail: diw_tiwari@yahoo.com

Co-conveners
Dr. N. Mohondas Singh
Department of Chemistry, School of Physical Sciences, Mizoram University, Aizawl – 796004
Mobile: 9612163894; E-mail: nmdas08@rediffmail.com
Dr. Lahmingliana Hname
Head, Department of Chemistry, Govt. Zirtiri Residential Science College, Aizawl
Mobile: 7005863144; E-mail: lhname7@gzrsc.edu.in

Organizing/Technical Committee:
Dr. Muthukumar R, MZU Dr. K.B. Singh
Dr. Zodinpuia Pachuau, MZU Mrs. Zonunthen
Dr. Raj Kumar Mishra, MZU Mrs. R. Lalramengzual
Dr. A. Bimoliza Devi, MZU Dr. Lalsaimawia Sailo
Dr. Ved Prakash Singh, MZU

REGIONAL WORKSHOP ON BASICS OF ANALYTICAL CHEMISTRY

August 7-11, 2017

Organized by
Department of Chemistry
School of Physical Sciences
Mizoram University Aizawl – 796004

In Collaboration with
Department of Chemistry, Govt. Zirtiri Residential Science College
Aizawl-796007, Mizoram

Funded by
Mizoram University
&
DBT Institutional Biotech Hub,
Govt. Zirtiri Residential Science College

REPORT ON
REGIONAL WORKSHOP ON BASICS OF ANALYTICAL CHEMISTRY

Date : 7th – 11th August, 2017
Place : Seminar Room, Department of Chemistry, Mizoram University
No. of Participants : 54 (14 faculty and 40 Students)
Organised by : Department of Chemistry, School of Physical Sciences, MZU
in Collaboration with Department of Chemistry, Govt. Zirtiri Residential Science College
Funded by : Mizoram University and DBT Institutional Biotech Hub, Govt.
Zirtiri Residential Science College

The workshop aims and focus to the Undergraduate and Post Graduate Chemistry Students to get in a depth training on Basics of Analytical Chemistry.

Day 1: The workshop was opened at 10:00 a.m. with a welcome address and highlighting the workshop programme by Prof. Diwakar Tiwari, Convener and HOD, Department of Chemistry, MZU. After that Prof. R.C Tiwari, Dean, School of Physical Sciences, Mizoram University gave the key note address. He mentioned the importance of Analytical Chemistry in our modern world. After that we had a short break and we start the technical session at 11:00 am. The first topic was an Introduction to Analytical Chemistry taken by Prof. Diwakar Tiwari.

Day 2: The topic was UV/VIS Spectroscopy. The resource person was Dr. Muthukumaran R, MZU. We had a theory class first and followed by practical.

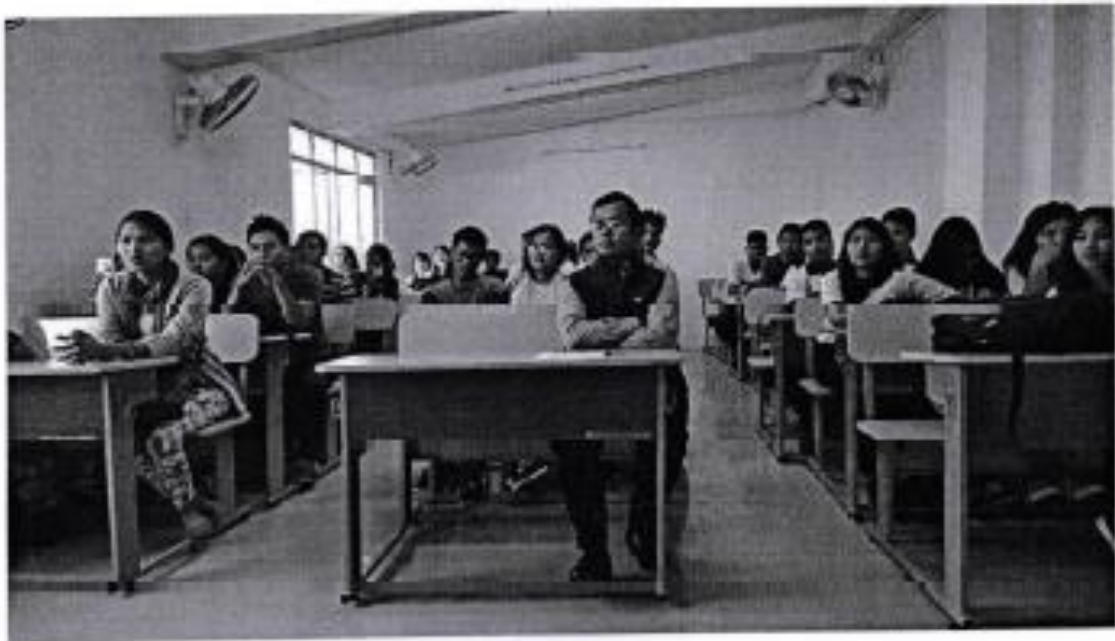
Day 3: The topic was Total Organic Carbon Analyser (TOC). The resource person was Prof. Diwakar Tiwari, MZU and Practical class was demonstrated by Dr. Lalsaimawia Sailo, Govt. Zirtiri Residential Science College.

Day 4: The topic was Molecular Fluorescence Spectroscopy. The resource person was Dr. N. Mohandas Singh, Department of Chemistry, MZU. After finishing the theory, we had a practical session in the afternoon.

Day 5: The topic was Titrimetry. The resource person was Dr. Ved Prakash Singh, Department of Chemistry, MZU. In the afternoon, the closing function was chaired by Prof. Diwakar Tiwari. The Chairman had invited a feedback about the workshop from the trainees, most of the students gave the feedback and they said that the workshop was success, fruitful and interesting. Finally, Dr. Lalhmingliana Hnamte, Co-Convener of the workshop, Govt. Zirtiri Residential Science College gave the vote of thanks. Several important insights and action items were accomplished through this workshop. The workshop was closed with a group photo session.

Reported by: Dr. Lalsaimawia Sailo, Member, Organising/Technical Committee

Activity Workshop and Brochure



2 Collaboration letter on one day workshop on Earthquake hazard in Mizoram from Geological Society of Mizoram with Geology department, GZRSC



GEOLOGICAL SOCIETY OF MIZORAM
(Regn. No. MSR 612 of 12.12.2014)

COLLEGE VENG, AIZAWL, MIZORAM: 796 001

F. Lalnunthuanga
PRESIDENT
Dr. Laldinpuia
GENERAL SECRETARY
Dr. C. Lalnuankimi
TREASURER

C. Laldinkima
VICE-PRESIDENT
Dr. J. Malsawma
ASSISTANT SECRETARY
Dr. V. Vanthangliana
FINANCE SECRETARY

[Contacts: President 9862792507; Gen. Secretary 9862399478]

No. GSM/A/2016-'18 /W/10

Dated Aizawl, the 20th June, 2018

To
The Head
Department of Geology
Govt. Zirtiri Residential Science College, Aizawl

Subj.: Collaboration for Workshop on Earthquake Hazard in Mizoram

Sir,

I am pleased to inform you that Governing Body of Geological Society of Mizoram (GSM) has decided to organise *Workshop on Earthquake Hazard in Mizoram (International level)* in collaboration with Pachhunga University College (PUC) & Govt. Zirtiri Residential Science College (GZRSC), which to be held on 29th June 2018 at Seminar Hall, Pachhunga University College.

Please kindly find arrangement for funding the workshop as per the following budget head.

Sl No.	Particular	Amount (₹)	Expected source
1.	Conference kits (100@ ₹ 50/-)	5,000.00	GSM
2.	Lunch (100@ ₹ 150/-)	15,000.00	GSM
3.	Light refreshment, Hall rental, Duty, Certificate, Battery (FM)	10,000.00	PUC
4.	Decoration & Memento (For Resource persons)	5,000.00	GZRSC
TOTAL:		35,000.00	


Thanking you in anticipation.

Yours sincerely,

(Dr. LALDINPUIA)
General Secretary, GSM


3 Association letter for online Training Spoken tutorial from IIT BOMBAY.

Spoken tutorial was start from may 2018 and detail report of all the spoken tutorial course taken by the HEI are uploaded in the weblink: <https://www.gzrsc.edu.in/reports/iit-bombay-spoken-tutorial-reports>.



भारतीय प्रौद्योगिकी संस्थान मुंबई
पवई, मुंबई-400 076, भारत
Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India

दूरभाष/Phone : (+91-22) 2572 2545
फैक्स/Fax : (+91-22) 2572 3480
वेबसाईट/Website : www.iitb.ac.in



**iit
Bombay**
हैल्फ् जयंती २०१८
Diamond Jubilee 2018
एक साथ प्रगति की ओर
Achieving Excellence Together

Date: 16th of August, 2018

To
Prof. Laltanpuia,
Principal, Govt. Zirtiri Residential Science College.
Aizawl, Mizoram
796007

We are happy to announce the ASSOCIATION of Knowledge Partner Spoken Tutorial Program, IIT Bombay with **Govt Zirtiri Residential Science College, Mizoram.**

The Program is a part of the National Mission on Education through ICT, MHRD, Govt. of India, to spread IT Literacy all over India. We are promoting the learning and usage of Free & Open Source Software (FOSS), through an Audio-Video teaching tool, viz, 'SpokenTutorial'.

We support and motivate colleges to train students on Basic Computer Skills, Software and IT. The course and the training is offered for Rs. 25,000 per year to all the Colleges.

You are making an outstanding contribution of using ICT based teaching and learning methodology for students of your College.


Yours Sincerely,

**For and on behalf of
Spoken Tutorials
Indian Institute of Technology Bombay**

HOD (Comp. Sc)

1/17/18

Shyama Iyer



**Shyama Iyer
National Coordinator
Spoken Tutorial Project, IIT Bombay**

4 Report of Seminar on Career Advancement Programme in collaboration with Central YMA, Mizoram.

REPORTS ON CAREER ADVANCEMENT CAMPAIGN

Names of the Project	:	Career Advancement Campaign
Place of Activity	:	College Auditorium, GZRSC, Aizawl.
Dates	:	28 th August, 2017
No of Participants	:	205 Students from 1 st Semester and 25 faculty
Resource Person	:	Mr. C. Lalsawta, IAS(Rtd)


Summary of the Activity:

The Programme started at 2:30 pm at the College Auditorium GZRSC. The session was chaired by Dr. R. Lalengmawia, Vice Principal, GZRSC. The Chairman welcomed the participants and after that he invited Mr J.H. Zoremthanga, the convener from Central YMA Team. Mr. Zorema introduced each and every one of his team from Central YMA and after that he talked about why they organized a Programme like this and he also said that they already organized the Educational Campaign Programme in other college and he said that this is the last one in Azawl City.

After that the Chairman invited the Resource person, Mr. C. Lalsawta, IAS(Rtd) to give a presentation. He start with a brief Introduction about himself. After that he talk about students career, he mainly concentrated on Central Service, he talked about how to enter Civil Service, about how to write preliminary and main Exam, how to face an interview, how to prepare the material and how to study the syllabus. After that we have an interaction between the paticipants and the resource person.

The Programme ended with a vote of thanks from Dr. R. Lalengmawia, the chairman of the session. The Research and Seminar committee is thankful to the Principal, GZRSC, all participants, Central YMA, various committee in GZRSC and RUSA, GZRSC for sponsoring the Programme.

Report by


(Dr. Ricky Lalfmangaihzuala)
Secretary

Research and Seminar Committee, GZRSC

Expenditure Statement for Career Advancement Campaign on 28th August, 2017

Sl. No.	Particulars	Voucher No.	Amount in Rupees
1	Appy	1	2,190.00
2	Appy	2	365.00
3	Veg Sandwich	3	6,000.00
4	Tea and Paratha	4	175.00
5	Delivery charge	5	150.00
6	Banner	6	800.00
	Total		9,680.00

Enclosure: Receipt.




Prof. S. ZOLIANA
Principal
Govt. Zirin Res. Sc. College
Aizawl - Mizoram

5. Report of Winter Class on Environmental Research Technique in collaboration with State Legal Services Authority HRDC, MZU And Pollution Control Board.

REPORT ON '3 MONTHS COURSE ON ENVIRONMENTAL RESEARCH TECHNIQUE'

RUSA Nodal Officers' meeting on 13TH September, 2017 at Principal's Chamber resolved to conduct a 3 months course on Environmental Research Technique as an 'Add-on course' for the final year students of B.Sc and any interested alumni member of Govt. Zirtiri Residential Science College. This committee also resolved to provide any financial and laboratory equipments that may be required during the course. The main aim of the training course is to enrich the trainees in various environment related topics and to increase their employability in their future endeavors. The meeting also entrusted the Research and Seminar committee to take up this programme.

The Research and Seminar committee appointed Dr. Lalzahawmi Chenkual as a course co-coordinator and Dr. Ricky Lalhmangaihzuala as Secretary of the course. The committee chalked out the topics to be covered during the course and appointed recourse persons for each selected topics. The committee also sought partnership in various environment related government departments/institutes. Thus the RUSA funded 3 months course on Environmental Research Techniques of Govt. Zirtiri Residential Science College was started in collaboration with

1. Mizoram State Legal Services Authority,
2. Mizoram Pollution Control Board, and
3. Human Resource Development Centre, Mizoram University.

Notification and application form for the course were given out through college notice board, college website, students' whatsapp groups and GZRSC alumni facebook groups. After careful scrutiny, 30 students were selected to attend the course and Rs 200/- was collected from all the selected students as registration fee. The first batch of students admitted for this course comprised of 16 final year students and 14 alumni members, many of whom have completed their Masters' degree and are now applying for jobs.

The opening function of the course was held on 1st December 2017 (Programme and photographs attached). During the course of this training, we tried to cover as many topics as possible in various environment related subjects. Our collaborators mentioned above provided us with expert resource persons on subjects like environmental laws, air and noise pollution, solid waste management, natural resource management and so on. Besides, experts from outside sources such as Disaster managements and mitigation, water pollution analysis and biodiversity analysis were also engaged. Teaching faculty members were also engaged to take classes on radiation monitoring, soil sample analysis, application of GIS technology and slope protection and bioengineering. All the resource

persons were requested to submit probable questions from their respective topics (Daily routine and list of topics and recourse persons attached)

A total of 44 classes were taken by 44 recourse persons. Attendance was taken regularly. On 14th February, 2018, evaluation in the form of class test was conducted. 25 multiple choice questions were selected from the questions submitted by the recourse persons. Percentage of attendance and performance in the class test were given equal value. Combining the percentage of marks from their test and percentage of attendance throughout the course, all the participants were given grades as under:

80	-	100%	: Grade O
70	-	79.9%	: Grade A
60	-	69.9%	: Grade B
40	-	59.9%	: Grade C

Out of the 30 participants, two of them could not complete the course due to family problems, thus course completion certificate bearing their respective grades, duly signed by College Principal, Director, HRDC, MZU, Member Secretaries of Mizoram Pollution Control Board and Mizoram State Legal Services Authority and course Coordinator was given out to the successful students at the closing function.

On 15th February, 2018, hiring one tourists' bus, all the participants, along with the coordinator and Secretary went for 'one-day site visit' to Tamdil lake, about 85 kilometers from Aizawl. Tamdil lake was selected for site visit as it is one of the two lakes which is included in National Wetland Conservation Programme, Ministry of Forest, Environment and Climate Change. Govt. of India. (Pictures of the tour attached)

On 16th February, 2018, closing function of the '3 month's course on environmental research techniques' was held at college auditorium. The function was graced by all the signatories of the certificate. RUSA Nodal Officers and Research and Seminar Committee members were also present in the closing function. Refreshment for the function was sponsored by Mizoram State Legal Services Authority. (Closing function programme attached).

Research and Seminar Committee expresses its gratitude to RUSA, GZRSC for funding this project, and all our collaborators for their contributions throughout the course. The committee congratulates all the successful participants and wishes them great success in their life.


Dr. Ricky Lalhmangaihzuala
Secretary


22/2/18
Dr. Lalzahawmi Chenkual
Coordinator.

6. Report on Handson Training Molecular Research Technique in collaboration with State DBT Biotech Hub, MZU

REPORTS ON HANDS-ON TRAINING PROGRAMME

Names of the Project	:	Hands-on Training on Molecular Research Technique
Place of Activity	:	Biotech Hub and Botany Laboratory, GZRSC.
Dates	:	: 31 st May 2018 – 6 th June 2018
No of Participants	:	19
Resource Persons	:	Resource persons are from State DBT-Biotech hub, MZU 1. Dr. Zothansanga, Assistant Professor. 2. Andrew Vanlallawma 3. Freda Lalrohlui
Organised by	:	Research and Seminar Committee, GZRSC and Institutional DBT- Biotech Hub, GZRSC <i>in collaboration with State DBT- Biotech Hub, MZU.</i>
Sponsored by	:	RUSA, GZRSC

The programme was organized by Research and Seminar Committee, GZRSC. The chairman and secretary of the committee were appointed to be course co-ordinators.

The training programme was meant for out-going students as well as teaching faculty who are interested in the field of molecular biology. List of participants with their attendance during the training is attached herewith.

During this Hands-on training programme, the following topics were covered

1. Preparation of chemical reagents.
2. Isolation of DNA from Bacteria and Plant samples
3. Polymerase Chain Reaction
4. Polyacrylamide Gel Electrophoresis (PAGE)
5. Estimation of Proteins by using Spectrophotometer

Feed back: Feed-back form submitted by the participants showed that, on the scale of 5 (five), 5 participants gave a score of 5 (Excellent) and 10 gave a score of 4 (Very good).

Enclosure: List of participants
Sample feedback form from participant
Expenditure statement
Photographs


(Dr. Ricky Lalhmangaihzuala)
Secretary


Prof. B. ZOLIANA
Principal
Govt. Ziri Rasi, Sc. College
Aizawl : Mizoram


(Dr. Lalzahawmi Chenkual)
Coordinator.