

FIELD REPORT

Date: 14.10.2022

Place: Leitan Durtlang

No. of students: 14

No. of Faculty: 2

Grand total: 16

Field study for 6th semester was conducted at DurtlangLeitan on 14th September 2022. The purpose of the field work was to teach the students the use of a geological compass and its application on how attitudes of bed along with slope were taken. Different terminology such as discontinuity (joints set, joints, parallel joints), fracture, crack, relationship of slope and bed were taught at site. The general stratigraphy of the area was also explained along with how the discontinuity and stratigraphy can control the geomorphology of an area.



Department of Zoology

FIELD TRIP

DEDODT



Submitted by

Department of Zoology, GZRSC-2023



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Department of Zoology
Govt. Zirtiri Residential Science College

1. Name of Department: Zoology

2. Name of Paper : Paper No. ZL XVI A: Practical Field visit to Fish farm (Compulsory)

3. Places of Visited :Thenzawl Fish Farm: HDPE liners are manufactured is a cross-laminated (electrostatically fused), multi-axially oriented, HDPE and Local Fish pond

4. Date : 9th September, 2023

5. Students involve : 5th Semester Zoology students
38 students

Guide : 2

Driver & Conductor : 2

6. Objectives : Develop “technical competency” by observing, collecting, interpreting, recording and evaluating geographic information and to evaluate or estimate the biotic communities on fish pond through fieldwork.

7. Outcome : Expose students to new experiences and can increase interest and engagement in science regardless of prior interest in a topic es specially in fish Biology Fisheries Department, Mizoram Government, wanted to develop the fisheries sector by utilizing natural land water & fish resources, not only for augmenting food production of state to reach a stage of self dependency for fish requirement, but also to generate employment, developing leadership, team building & entrepreneurial skill among the people.

INTRODUCTION

1.1 The first session of the field visit took place at **HmuifangTlang** located at **Hmuifang**. It was an insightful and knowledge driven experiment for the student. 38 students along with a few lectures went for the trip.

Hmuifangtlang (Hmuifang Hills) is located at a distance of 50kms to the South of Aizawl, Hmuifang Hills with virgin forest reserved since the days of the Mizo chiefs. Hmuifang tourist resort, located at the Scenic peak of the mountain, has been created and maintained by the Mizoram Government.

This Hills also has beautiful cliffs and offers great views of the surrounding hills. To the nature lovers, the surrounding forests abound with fascinating varieties of Flora including rare orchids and wildlife especially avifauna. Within the Hills, all the student and teacher have photo-shooting. This mountain is very wonderful, interesting great feeling, happiness and lovely place for me.

HMUIFANG HILLS

1.2 After one and half hour, the second session of the field visit took place at Fisheries Department farm complex, Thenzawl, Mizoram. After, a few minute rest and serve as a lunch. Aftermath, they have been prepared for field report and study us two Geomembrane fish pond, firstly our teacher guided us and we explore the environment.



Date:23/9/23

Time:12:30-3:00pm

Location: Fisheries Department farm complex nearby Thenzawl, Mizoram

A. DESCRIPTION

The aim of visiting this is identifying changes in geological bearings, collection of planktons rather than identifying the fish population. Usually culture in this ponds, species stocked are Indian major carp viz...*Catla*, *Labeo rohita*, *Cirrhinus mrigala*. Exotic carp viz...*Hypophthalmichthys molitrix* (silver carp), *Ctenopharyngodon idella* (grass carp), *Cyprinus carpio* (common carp).

Two different geomembrane ponds were marked and planktons were collected using a plankton collecting net. Plankton nets are a modification on the standard trawl used to collect planktonic organisms, of nearly any size intact. This collecting net is a special net. Those planktons are small, microscopic organisms or floating in the sea or freshwater, consisting chiefly of diatoms, protozoans, small crustaceans, and the eggs and larval stages of larger animals. Many animals are adapted to feed on the plankton, especially by filtering the water. By then, the planktons collected from the ponds are being bottled and brought home for further laboratory experiment.

COLLECTING PLANKTON



B.GEOMEMBRANE FISH POND :

Geomembrane fish ponds are often used as pond liners in gardens and parks,lagoon,slurry or reservoir liners, or as industrial pond, basin or water buffers and in civil engineering projects.They can also be farbricated shape to make a variety of water liming solutions



GEOMEMBRANE FISH POND:1



FISH POND:2

GEOMEMBRANE

***Construction of GEOMEMBRANE FISH POND**

1. Land should have more water holding capacity.
2. Land should not be more alkaline or acidic.
3. Low lying area are more suitable.
4. Outlets and Inlets of ponds should be well built.
5. Site should be approachable with road or path.

Geomembrane fish pond is Artificial fish pond. Harvest the fish early in the morning when it is cool. Have some watertight containers ready to store live fish. The easiest way to harvest is by draining the water out of the pond by draining all of the water.

The feed conversion ratios (FCR) in this type of feeding systems from 3 to 4 kg of feed to 1 kg of fish production. Fish are normally harvested at 1 to 1.2 kg body weight after 8 to 10 months.

C. GEOLOGICAL BEARING:

From two different locations the following observation can be made:

LOCATION : 1

GPS Coordinate	A-699m,L-26237,92.75955(+_ 4m)
Wind velocity	1.5-3 km/h
Noise quality	73 dB
Relative humidity	1-52%,35.6 degree C
Air temperature	34.5 degree C
Water temperature	23 degree C
TDS	10ppm
Turbidity level	1.8 cm
pH	6.5-9.5pH

LOCATION:2

GPS Coordinate	A-699m,L- 26237,92.75955(+_ 4m)
Wind velocity	1.5-3 km/h
Noise quality	73 dB
Relative humidity	2-53%,36.2 degree C
Air temperature	35 degree C
Water temperature	24 degree C
TDS	10 ppm
Turbidity level	1.8 cm
pH	6-8.5pH

MEASURING WATER pH LEVEL

D. RESULT:

From the experimental data, it can be concluded that, there was not much change in GPS location, Altitude, Air, Water, Temperature etc.. But there could be a slight change in the water pH depending on the ponds and the noise quality could be a slightly change in the noise level of the condition

1.3

After 20 mins, the third session of the field visit took place at **Vantawngkhawthla (Vantawng waterfalls)**. Firstly, I observed like that, "*There is a hidden message in every waterfall. It says if you are flexible, falling will not hurt you*". Nature never goes out style but ever beauty in Nature...

Located at a distance of about 137 kms from Aizawl, Vantawngkhawthla or Vantawng falls in the highest and most spectacular of all the waterfalls and cascades in the fast flowing rivers of Mizoram. It is located in Vana river near Thenzawl and is named after Vantawnga was said to be an excellent swimmer. So good a swimmer was Vantawnga that he could hover in the cascading water like a fish, but unfortunately during one of such performances, a drifting log fell from above and killed him.

The height of the fall is recorded as 750ft and though it is difficult to get close to it because of the sheer forested hill sides surrounding it, a comfortable viewing tower has been constructed.



September to January are the best months to visit Vantawng falls due to greater clarity. The waterfall is visible running at its full might through the verdant MIZO HILLS. The greenery surrounding the waterfall is also accentuated and thick during these months of the year. The winters months will be cold due to high altitude and some protections is required from the cold especially during night time. Hence, be generous while you pack woollens.

1.4

After 30 mins, the fourth session of the field visit took place at **Dilpui**. Dilpui is a lake in the Thenzawl town Area, Thenzawl is a town in Mizoram state, India country.

Date: 23/9/23

Time: 4:00-5:00 pm

Location: Dilpui, Thenzawl Town, Mizoram



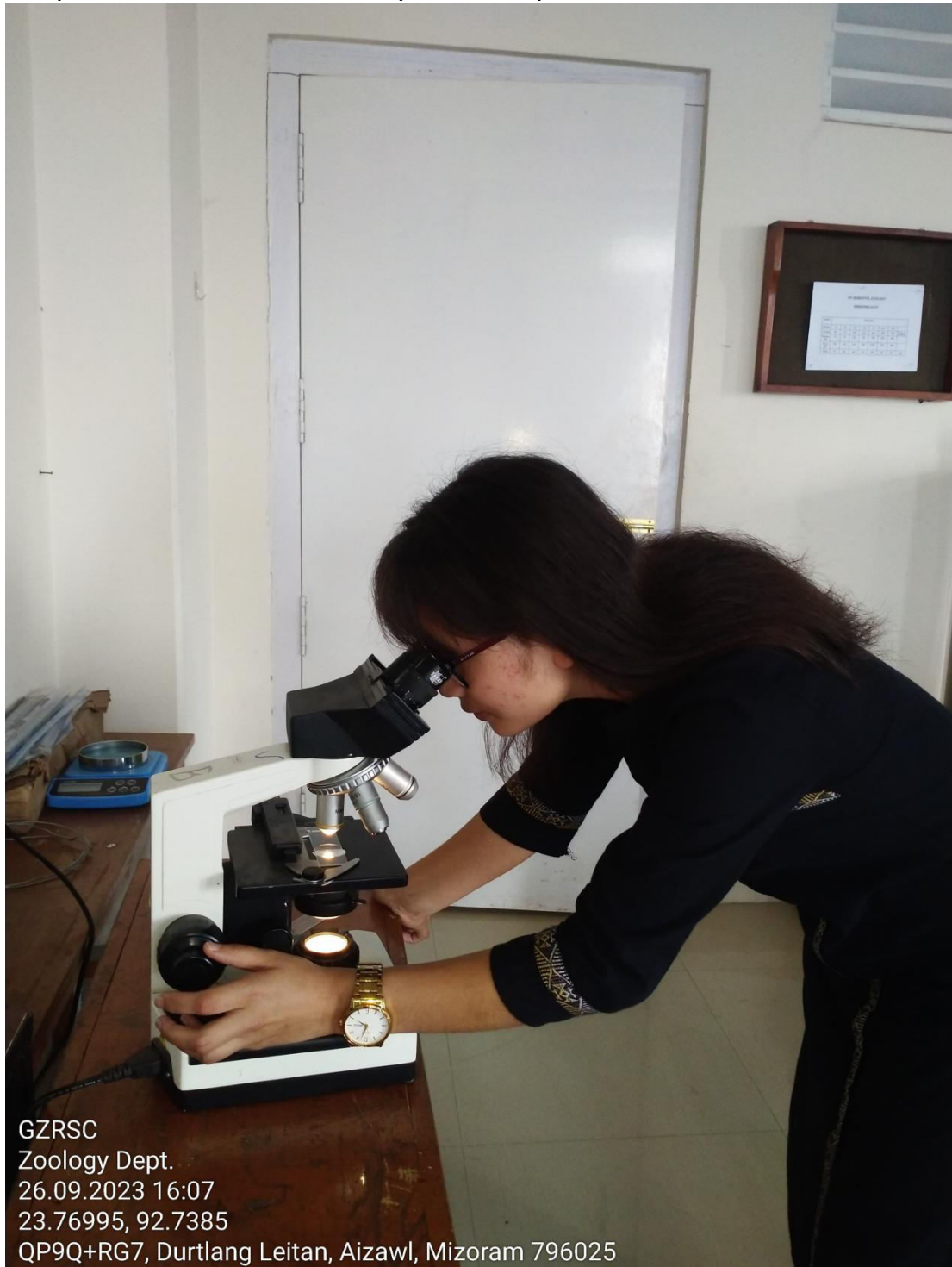
DILPUI LAKE

Tucked away in the tickets of green on the Southern tip of Northeast India, Mizoram is a nature lover's paradise. Dilpui is also said that Paradise in Mizoram

A must visit spot with a lovely lake which has boating ride and horse ride

1.5

For the last session, we need to observe our sample taken from the pond under the Laboratory microscopes.



In laboratory, we kept our sample on slide and seen through the microscope we seen some of the insects that was inside the pond. Like Daphnia ,Euglena ,Synerasp, Cladophora, Staurastrum

Sl. No.	Roll Number	NAME Of STUDENT	Attendance
1	2107BS013	B. LALHRUAIPUIA	Present
2	2107BS017	BENJAMIN MALSAWMZELA	Present
3	2107BS034	C. VANLALVOHBIKI	Present
4	2107BS037	CHHUANSANGZUALA	Present
5	2107BS038	CHRISTOPHER LIANZOVA	Present
6	2107BS048	EMANUEL LALCHHANCHHUAHI	Present
7	2107BS069	H. SINGIA AZYU	Present
8	2107BS072	HC LALRAMDINMAWII	Present
9	2107BS078	J. LALRINMAWIA	Present
10	2107BS102	KAMLIANDINGA	Present
11	2107BS125	LALHMANGAIHZELI	Present
12	2107BS142	LALNUNPUII	Present
13	2107BS165	LALRINTLUANGA	Present
14	2107BS168	LALRINTLUANGI	Present
15	2107BS174	LALRUATDIKI	Present
16	2107BS180	LALSIAMKIMI	Present
17	2107BS185	LALTHLAMUANA	Present
18	2107BS188	LALTHUTHLUNGDIKI	Present
19	2107BS194	LAXMI THAPA	Present
20	2107BS195	LC FEMINA	Present
21	2107BS202	MALSAWMA	Present
22	2107BS210	MAWITHIANCHINGI	Present
23	2107BS211	MELODY LALLAWMPUII	Present
24	2107BS214	MONISHA DEVI CHAKMA	Present
25	2107BS223	NGOPAWPI	Present
26	2107BS238	R. LALHMINGTHIANGHLIMA	Present
27	2107BS245	R. MALSAWMDAWNGZELA	Present
28	2107BS251	RAMHLUZUALI	Present
29	2107BS253	RAPHAEL LALRAMHLUNA	Present
30	2107BS259	RL HMANGAIHSANGA	Present
31	2107BS263	ROSANGPUIA HNAMTE	Present
32	2107BS269	RUTHI NGURNUNTLUANGI	Present
33	2107BS277	SHANTI JIVAN CHAKMA	Present
34	2107BS280	SUANLIANTUANGA	Present
35	2107BS286	T. LALAWMPUII	Present
36	2107BS288	T. LALHRIATRENGI	Present
37	2107BS292	TOPA CANADA	Present
38	2107BS314	VANRAMENGI	Present

Report on field Visit During 2022-2023

1.Name of Department : Botany

2. Name of Paper :BOT/V/CC/16: Environmental Biology, Ethnobotany

3.Place/s of Visit : Zopar farm at Vaipuanpho and Reiek forest

4.Date/s of Visit :28.10.2022

5.Students involved:5th semester botany core students

6.Objective:The trip was organized with a view to orient the students towards the practical aspect of their curriculum with the visit to Zopar farm which is one of the biggest producers of fresh cut flowers in North East India and Reiek hill forest. The second site had been selected to expose the students to the ecological and environmental aspect of their course.

7.Outcome:

1.At Zopar farm, the students witnessed first-hand,different plant breeding techniques used for commercial production of cut flowers from propagation to the final stage of sorting and packing for transport to its final destination.

2. At the second site, the students were able to study the biodiversity of Reiek forest and the differences in the flora of the buffer, core and grassland zones of Reiek.

8. Short write up :A field trip was conducted to Zopar farm and Reiek forest on 28th October 2022.26no. of students and all the faculty members of the department participated in this trip. The first stop was at Zopar farm which supplies fresh cut flowers to Mizoram as well as different parts of India. A variety of plants such as rose, *Chrysanthemum*, *Anthurium*, *Gladiolus*, *Lilium*, *Gypsophila*, blue daisy, leather leaf fern as well as strawberry are propagated and grown here. The flowers are grown using organic methods, and the farm is certified by the Mizoram Organic Farming Mission. The farm uses a variety of organic methods to grow its flowers. The flowers are fertilized with compost and manure, and they are protected from pests and diseases with natural pesticides. The students visited these greenhouses and learnt about different plant breeding techniques practiced at the farm, the growth mediums used for different flowers, the importance of screening, sorting, packing and storage of the cut flowers before transportation.

The second site of visit was Reiek forest. Here, the vegetation was studied and plant species which could be identified on site were noted down and photographs or samples of others which could not be identified were collected for later identification with the help of reference books and guides. The students also collected some specimenfor their herbarium collection. The rich flora andthe plant diversity in the different ecological zonesthat is the buffer, core and grassland zones were also was observed first hand by the students.



Site 1. Students learn the techniques of handling the seedlings and flowers at Zopar farm



2. Students exploring and observing the rich flora and plant diversity inside Reiek forest.



	28.10.2022	Field Trip Attendance (Reiek& Zopar)	
Sl No	Roll No	Name	Attendance
1	2007BS013	Edward	P
2	2007BS028	David Laldinpuia	P
3	2007BS057	J.H.Vanlalfakzuala	P
4	2007BS058	Jacob Lalrosanga	P
5	2007BS071	K.Lalremmawii	P
6	2007BS085	Lalbuatsaihi	P
7	2007BS086	Lalchhanchhuaha	P
8	2007BS093	Lalengkawli	P
9	2007BS108	Lalramdinsangi	P
10	2007BS114	Lalremveli	P
11	2007BS131	Lalrohlupuii	P
12	2007BS138	Laltlanzovi	P
13	2007BS146	Malsawmdawngzela	P
14	2007BS147	Malsawmhloi	P
15	2007BS151	Mary Tingkhawlmangi	P
16	2007BS159	Nelzar Lalhmangaihsanga	P
17	2007BS163	P.C.Rohlupuii	P
18	2007BS171	R.Lallawmzuali	P
19	2007BS185	Rosangzeli	P
20	2007BS187	Ruthi Lalnunthari	P
21	2007BS203	T.C.Zothansanga	P
22	2007BS204	Teresa Malsawmdawngkimi	P
23	2007BS220	Vanlalrinawmi	P
24	2007BS224	Zaithanmawii	P
25	2007BS227	Zorammuana	P
26	2010BS015	Lalremsanga	p

Report on Field work at Muallungthu

Date: 11 August, 2023

As per the CBCS of the UG Biochemistry Syllabus of Mizoram University, the project work carrying 100 marks is to be assigned to the 5th Semester students of the Biochemistry department. In this connection, all the 5th semester students of the Biochemistry department and faculty members had made a field visit to Muallungthu village, 19 km away from Aizawl on 11th August, 2023. With the assistance of Farm Owner **R. Lalbiaklua**, different local varieties of chilli grown in the field/farm were explored. A total of seven (7) varieties were identified.

With the help of IPGRI descriptors for chilli germplasm, students perform data collection by measuring and visualising the qualitative and quantitative germplasm characters. Each variety was given an accession number for further reference.

The collected data from the study will be used for the morphological characterization of chilli varieties for partial completion of their project work. All the students learned new things and did field-based research, which will be very helpful in shaping their future in higher studies.

Lists of students at field-work		
S/no	Roll No	Name
1.	2107BS012	B. Lalhriatpuia
2.	2107BS022	C. Laldawngmuana
3.	2107BS024	C. Lalduhawmi
4.	2107BS027	C. Lalremruata
5.	2107BS030	C. Nelson Beiraduakhei
6.	2107BS051	Esther Lalthakimi
7.	2107BS097	K. Sunita Singh
8.	2107BS107	LaithangpuiiChenkual
9.	2107BS119	Lalfakmawii
10.	2107BS261	Romalsawma
11.	2107B272	S.JulieLalruathlupuii
12.	2107BS293	V. Lalchansanga
13.	2107BS296	Vanlalawmpuia
14.	2107BS305	Vanlalpeka



REPORT ON
VISIT TO STATE DATA CENTRE

Date: 11th August 2022

Time: 10:30am – 2: 00pm

Venue: INFORMATION AND COMMUNICATION DEPARTMENT, TREASURY SQUARE

No of Participants:

Student: 23 (5th Semester Students)

Faculty: 1

Organiser(s): Department of Computer Science

Short Report:

All the 5th semester students of BCA were guided to have field visit at State Data Centre under Department of Information and Communication Department, Govt. of Mizoram, at treasury square. We arrived at 10:30 am and began our tour at 10:50am. Firstly, we visited the server room in which we are divided into two groups. The workers and staffs were very friendly. Mobile phone and other gadgets were not allowed in the server room. The staffs explained how the server works and function. There were 9 staffs to look after the server room and they work 24x7 hours in shift. The students were all anxious to visit the place and they clarify their doubt then and there.

Next, they visited the basement power supply system. There was a large generator of 1000kva and a number of control systems. Mr Cavin Lalnunpuia, technical staff explained the working and maintenance of the power supply.

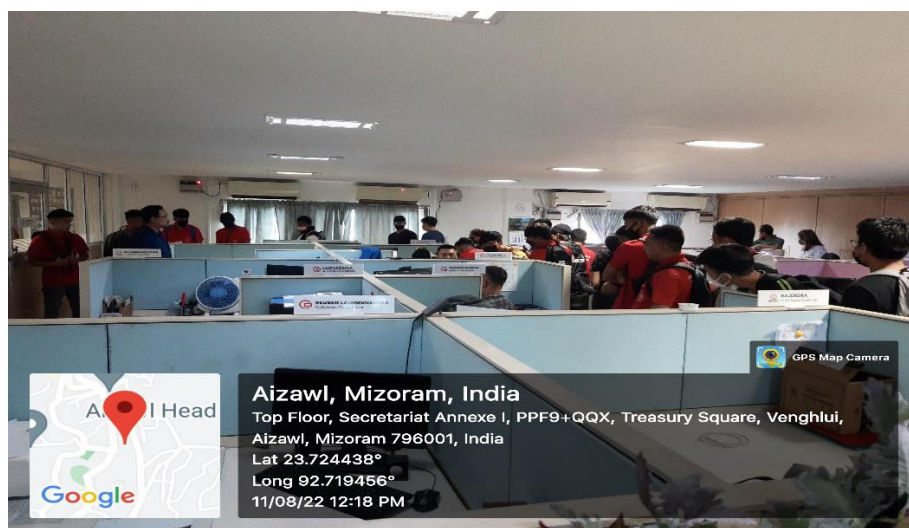
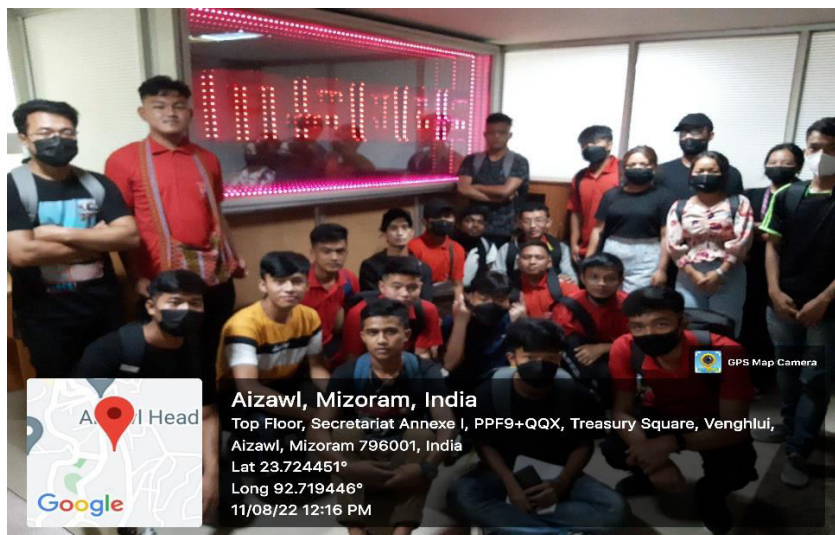
Lastly, they visited the MSEGs (Mizoram State E-Governance Society) which was located on the upper floor of the building. There were a number of staffs who were software developers, designers and engineers. Our alumni Mr Zonunsanga Zote guide us to their office and three of their staffs shares their experiences in their work and enlightened them for their future career. They encourage the students to work hard to achieve their goal.

They were very delighted to visit the state data centre and each students wrote and submitted a report on the visit.

Report by Dr. M.S.Dawngliani,

Assistant Professor, Dept. of Computer Science, GZRSC

FIELD TRIP PICTURES







No. A. 11013/3/2018-MSeGS

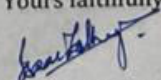
Dated Aizawl, the 11th August 2022

TO WHOM IT MAY CONCERN

On 11th August, 2022 a students of Bachelor of Computer Application, 5th Semester, Govt. Zirtiri Residential Science College had a field trip on our premises today. The student and our Technical Team had spent wonderful time together. They had walk-around inside the premises and visited State Data Center Server Farm, Power Backup facility and MSeGS office. The following were the details of program executed:-

Sl No.	Time	Topic	Spoke person/Technical i/c	Location
1.	10:30 AM – 11:30 AM	Walk around and brief about State Data Centre Server farm	1. Pi Lalruatfeli Kullai, Project Manager 2. Pu C. Malsawmzuala, Jr. System Admin. 3. Pi Zoengmawii, Helpdesk	SDC
2	11:30 AM – 11:50 AM	Explained about Power Back up	1. Pu Calvin Lalnunkima, BMS Admin	Basement
3	12:10 PM – 12:20 PM	Walk around at MSeGS office	1. Pu Zonunsanga Zote, Jr. Computer Engineer	MSeGS
4.	12:20 PM – 1:10 PM	Interaction with Students and Technical Team (Q&A session, careers guidance, motivational speech)	1. Pu Zonunsanga Zote, Jr. Computer Engineer 2. Pu Lalthanpuia, Jr. Computer Engineer 3. Pu Lalthanpuia Chhangte, Jr. Computer Engineer 4. Pu Lalmangaiha, Jr. Computer Engineer 5. Pu Rajendra, Jr. Computer Engineer	MSeGS Conference hall

Yours faithfully,


(ISAAC ZOTHANPUIA)

Project Manager,
Mizoram State e-Governance Society.

List of Students in the IT Trip

Roll No.	Name of the Student	Class
1	C. Lalruatsaki	5 th Sem BCA
2	C.H. Andreas Tudu	5 th Sem BCA
3	Eric Zoremsanga	5 th Sem BCA
4	F. Lalhruaitluanga	5 th Sem BCA
5	H. Lalhriatpuia	5 th Sem BCA
8	K. Muansiamama	5 th Sem BCA
9	Lalchhuanawma	5 th Sem BCA
10	Lalhriatpuia	5 th Sem BCA
11	Lalhruaizela	5 th Sem BCA
12	Lallawmkima	5 th Sem BCA
14	Lalnunmawia	5 th Sem BCA
16	Lalvenhima	5 th Sem BCA
17	Lawrence lalrinsangpuia	5 th Sem BCA
18	LH Zonuntluanga	5 th Sem BCA
20	M.S. Dawngzela Sailo	5 th Sem BCA
21	Malsawmkimi	5 th Sem BCA
22	R. Lalhmingmawia	5 th Sem BCA
23	R. Lalmalsawma	5 th Sem BCA
24	Richard Lalremmawia fanai	5 th Sem BCA
27	Vanlalmawipuia	5 th Sem BCA
28	Vanlalvenhimi	5 th Sem BCA
29	Zodinpuia	5 th Sem BCA
30	Zodintluanga	5 th Sem BCA