REPORT OF THE WORKSHOP ON

"Capacity Building, Sensitization and Awareness in Basic Science for Higher Secondary Science Students of Shillong"

Conducted on 2nd September 2023



ORGANISED BY

Advanced Biotechnology Research Laboratory, St. Edmund's College, Shillong

In collaboration with

The Internal Quality Assurance Cell (IQAC), St. Edmund's College, Shillong, and the Department of Biotechnology, St. Edmund's College, Shillong

CONTENTS

- 1. ACKNOWLEDGEMENTS
- 2. GENERAL INFORMATION
- 3. WORKSHOP STRUCTURE
 - a. Workshop Description
 - b. Programme of the Workshop
 - c. Mode of Conduct of the Workshop
- 4. LIST OF REGISTERED PARTICIPANTS
- 5. FEEDBACK ANALYSIS
- 6. FINANCIAL STATEMENT
- 7. APPENDICES
 - a. Appendix A (Brochure)

ACKNOELEDGEMENTS

This Workshop was held in Biotech Hub Facility, St. Edmund's College, Shillong — would not have come to fruition had it not been for the guidance and *enthusiasm* of **Dr. Samrat Adhikari**, Head, Department of Biotechnology, St. Edmund's College, Shillong.

I am also thankful for the support of **Br. (Dr.) Simon Coelho**, Principal, St. Edmund's College, Shillong.

The two Resource Persons — Dr. B. Manners (Department of Biotechnology, St. Edmund's College) and Prof. Bertrand Dkhar (Assistant Professor, Department of Computer Science, St. Edmund's College) — delivered well-received talks, which accommodated the students' rudimentary understanding of *workshop* in the Life Sciences and motivated them to explore the realm of Sciences and Computer.

Technical and logistical support, provided by **Bah Erwin Kshiar**, Lab Assistant, Department of Biotechnology, St. Edmund's College, Shillong, was invaluable.

The dedication of the students and also the Principal and Staff of St. Edmund's Higher Secondary School Shillong, in attending a workshop which was external to their syllabus-regimented learning, is highly appreciated.

1. GENERAL INFORMATION

Title of the Course: "Capacity Building, Sensitization and Awareness in Basic Science for Higher Secondary Science students of Shillong"

Duration of Workshop: 3 Hours

Date of Workshop: 2nd September 2023

Opening of registration process: 9:00 A.M

Mode of Registration: Offline

Total No of Students Enrolled: 25

Registration Fees: None

Workshop Coordinator:

External Speakers Involved:

WORKSHOP STRUCTURE:

The subsequent sub-section will highlight various aspects of the Workshop, such as workshop Description, the Programme, interactions, and feedback etc.

a. Workshop Description:

Workshop:

Workshop is a presenter-led experience which includes challenges and learning for the groups to understand as they go through the workshop.

b. Programme of the Workshop:

This workshop was divided into two sessions. These sessions were presented by Dr. B. Manners from the Biotechnology Department and the other by Asst. Prof. Bertrand Dkhar of the Computer Science Department. The programme of the workshop is listed in the table below:

Session	Topic	Presenter	Hours	Date
I	"Computer Science as a field of	Prof. Bertrand Dkhar	1	2nd September,
	Study"			2023
II	Career prospects in Biotechnology and Preparation of Synthetic Seeds (Practical)	Dr. B. Manners	1	2 nd September, 2023

Apart from the 2 hour session, half-an-hour was allotted for the assessment of the students' and their feedback on the conduct and *content* of the workshop.

c. Mode of conduct of the Workshop:

The workshop was held offline, over a period of One-day. The duration of each session was one hour, with the total workshop comprised of a total three hours. The Workshop was hosted by Shekinah Challam, Co-PI & Organizing Secretary.

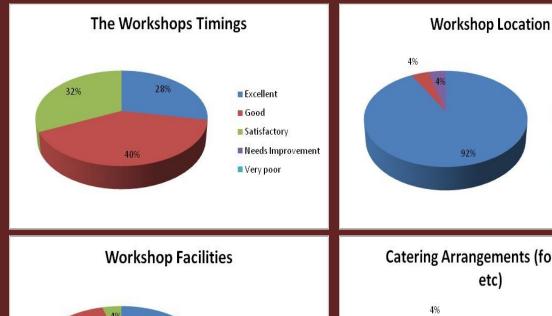
LIST OF REGISTERED PARTICIPANTS

Sl.no	Name of the Participant	Class	Institution	Phone no
			St. Edmund's Higher Secondary	
1	Chean Mikkim G. Momin	12	School	9863083830
	Joshua Kasangku M.		St. Edmund's Higher Secondary	
2	Sangma	12	School	9383336155
			St. Edmund's Higher Secondary	
3	Sweety Ranee	12	School	9856235583
			St. Edmund's Higher Secondary	
4	Adora Shylla	12	School	8798871015
			St. Edmund's Higher Secondary	
5	Aditi Kumari	12	School	6201159060
			St. Edmund's Higher Secondary	
6	Bhabonni Sumer	12	School	8798179288
			St. Edmund's Higher Secondary	
7	Ruhella Jala	12	School	8119896435
			St. Edmund's Higher Secondary	
8	Phowlthari Ruwnglal	12	School	8731045304
			St. Edmund's Higher Secondary	
9	Wanpynbiang Kharkongor	12	School	9077512544
			St. Edmund's Higher Secondary	
10	Sandahun Pala	12	School	9774332349
			St. Edmund's Higher Secondary	
11	Catherine D. Diengdoh	12	School	9362684287
			St. Edmund's Higher Secondary	
12	Hawamaya Lyngdoh	12	School	8837356514
			St. Edmund's Higher Secondary	
13	Aibantei W. Pahsyntiew	12	School	8798535950
			St. Edmund's Higher Secondary	
14	Khrosakhiat Bareh	12	School	9863202970
			St. Edmund's Higher Secondary	
15	K. Vansangpuii	12	School	6909292604
	.16		St. Edmund's Higher Secondary	
16	Alfonza Yoolangika Madur	12	School	9774104744
	- 1 - 2		St. Edmund's Higher Secondary	000004==44
17	Emmonlang Chyne	12	School	9362047514
			St. Edmund's Higher Secondary	22222
18	Johanan Sohtun	12	School	9366604720
19	Edward P. Lamare	12	St. Edmund's Higher Secondary	7005386029

			School	
			St. Edmund's Higher Secondary	
20	Nangteinam Dohling	12	School	6009030709
			St. Edmund's Higher Secondary	
21	Sa-me-kyrpang Khonglah	12	School	9366814988
			St. Edmund's Higher Secondary	
22	Arkibanshan Surong	12	School	9615310403
			St. Edmund's Higher Secondary	
23	Paogougin Kipgen	12	School	8259002913
			St. Edmund's Higher Secondary	
24	Gordon Kupar Nongbri	12	School	7628071202
			St. Edmund's Higher Secondary	
25	Delbert Tongper	12	School	7638901017

Feedback from the Students

Out of the 25 students who participated for this workshop, all 25 of them responded for the feedback. The analysis is depicted below:



■ Excellent

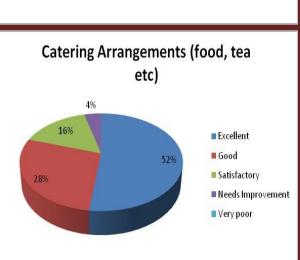
Satisfactory

■ Very poor

■ Needs Improvement

■ Good

63%



92%

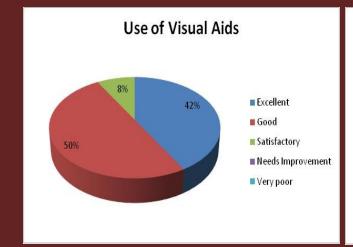
■ Excellent

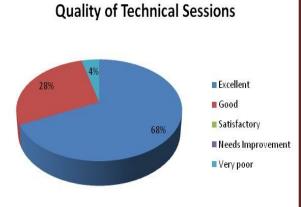
■ Satisfactory

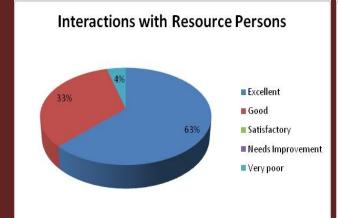
■ Very poor

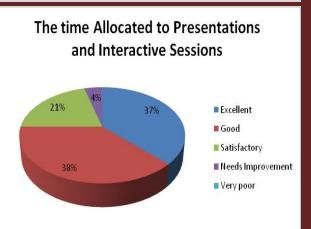
■ Needs Improvement

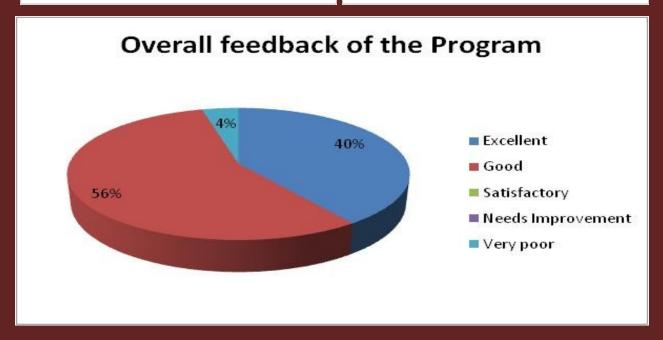
■ Good











Do you have any <u>SUGGESTIONS/COMMENTS</u> for the Workshop Facilitator on how to improve this Workshop?

- a. It was a really informative workshop. Would like to have such similar workshop more often. Facilitators were really interactive and helpful. Overall, it was a good experience.
- b. It was quite interesting & good. No need of improvement.
- c. We liked both the sessions as we get to learn new things.

APPENDICES

Some of the visuals from the Workshop are presented below:







REPORT OF THE WORKSHOP ON

"Capacity Building, Sensitization and Awareness in Basic Science for Higher Secondary Science Students of Shillong"

Conducted on 7th October 2023



ORGANISED RY

Advanced Biotechnology Research Laboratory, St. Edmund's College, Shillong

In collaboration with

The Internal Quality Assurance Cell (IQAC), St. Edmund's College, Shillong, and the Department of Biotechnology, St. Edmund's College, Shillong

CONTENTS

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- 2. GENERAL INFORMATION
- 3. WORKSHOP STRUCTURE
 - a. Workshop Description
 - b. Program of the Workshop
 - c. Mode of Conduct of the Workshop
- 4. LIST OF REGISTERED PARTICIPANTS
- 5. FEEDBACK ANALYSIS
- 6. APPENDICES
 - a. Geotagged Photos

ACKNOWLEDGEMENTS

This Workshop was held in Biotech Hub Facility, St. Edmund's College, Shillong — would not have come to fruition had it not been for the guidance and *enthusiasm* of **Dr. Samrat Adhikari**, Head, Department of Biotechnology, St. Edmund's College, Shillong.

I am also thankful for the support of **Br. (Dr.) Simon Coelho**, Principal, St. Edmund's College, Shillong.

The Two Resource Persons — Ms. Shekinah Challam from the Department of Biotechnology, and Dr. I. Kharbangar of the Chemistry Department, St. Edmund's College — delivered well-received talks, which accommodated the students' rudimentary understanding of *workshop* in the Life Sciences and motivated them to explore the realm of Sciences and its important.

Technical and logistical support, provided by **Bah Erwin Kshiar**, Lab Assistant, Department of Biotechnology, St. Edmund's College, Shillong, was invaluable.

The dedication of the students and also the Principal and Staff of Clear Springs Secondary School, Shillong, in attending a workshop which was external to their syllabus-regimented learning, is highly appreciated.



GENERAL INFORMATION

apacity Building/Motivational talk, awareness

sensitization on Bioscience for Higher Secondary School students

Organized by

Department of Biotechnology
In Collaboration with

Department of Chemistry
&
Department of Environmental Science

St. Edmund's College

Sponsored by

DEPARTMENT OF BIOTECHNOLOGY, GOVT, OF INDIA, NEW DELHI
INDER ADVANCED INSTITUTIONAL LEVEL BIOTECH HUB (PHASE II)

Title of the Course: "Capacity Building, Sensitization and Awareness in Basic Science for

Higher Secondary Science students of Shillong"

Duration of Workshop: 3 Hours

Date of Workshop: 7th October 2023

Opening of registration process: 9:00 A.M

Mode of Registration: Offline

Total No of Students Enrolled: 12

Registration Fees: None

Workshop Coordinator: Ms. Shekinah Challam

External Speakers Involved: Nil

WORKSHOP STRUCTURE:

The subsequent sub-section will highlight various aspects of the Workshop, such as workshop Description, the Program, interactions, and feedback etc.

a. Workshop Description:

Workshop:

Workshop is a presenter-led experience which includes challenges and learning for the groups to understand as they go through the workshop.

b. Program of the Workshop:

This workshop was divided into two sessions. These sessions were presented by Ms. Shekinah Challam from the Department of Biotechnology and the other by Dr. I. Kharbangar of the Chemistry Department. The program of the workshop is listed in the table below:

Session	Topic	Presenter	Hours	Date
I		Ms. Shekinah Challam	1	7 th October, 2023
II		Dr. I. Kharbangar	1	7 th October, 2023

Apart from the 2 hour session, half-an-hour was allotted for the assessment of the students' and their feedback on the conduct and *content* of the workshop.

c. Mode of conduct of the Workshop:

The workshop was held offline, over a period of One-day. The duration of each session was one hour, with the total workshop comprised of a total three hours. The Workshop was hosted by Ms. Shekinah Challam, Co-PI & Organizing Secretary and also the Resource Person on that day.

LIST OF REGISTERED PARTICIPANTS

SI. No	Name of the Participants	Class	Institution	Phone no
			Clear Spring Secondary	
1	Mebari Kharmawlong	10	School	7630001516
			Clear Spring Secondary	
2	Shara Nongsiej	10	School	8787420563
			Clear Spring Secondary	
3	Muskan Rajak	10	School	8787673986
			Clear Spring Secondary	
4	Daphisha Masharing	10	School	6909075429
			Clear Spring Secondary	
5	Aitihun Masharing	10	School	6909075429
			Clear Spring Secondary	
6	Selina Lyngdoh	10	School	8257833785
			Clear Spring Secondary	
7	Chingkhanhoih Khuptong	10	School	9863960611
			Clear Spring Secondary	
8	Sonu Boro	10	School	8258066268
			Clear Spring Secondary	
9	Bashanlang Synrem	10	School	9366338681
			Clear Spring Secondary	
10	Raymond Nongsiej	10	School	9863017510
			Clear Spring Secondary	
11	Bawanlamkupar Kharsati	10	School	8794051381
			Clear Spring Secondary	
12	Reagan T. Nongbri	10	School	6009355536

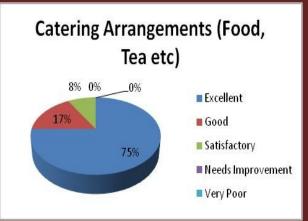
Feedback from the Students

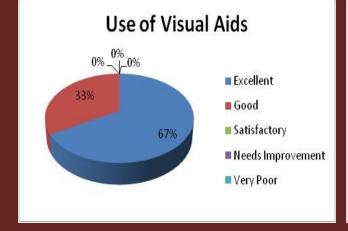
Out of the 12 students who participated for this workshop, all 12 of them responded for the feedback. The analysis is depicted below. Click here for data



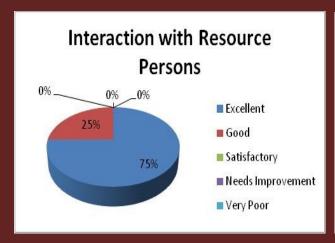


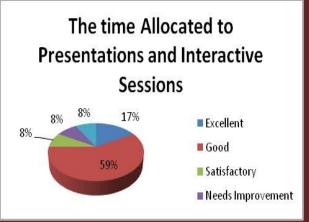














Do you have any <u>SUGGESTIONS/COMMENTS</u> for the Workshop Facilitator on how to improve this Workshop?

- a. "The explanation is very good. I can understand it easily, it was very fun especially the experiment, and the food is delicious. Thank you so much for inviting us to this program"
- b. "I would like to thank all the teachers and Principal of St. Edmund's College for inviting us to this Science Workshop"
- c. "Thank you to all the teachers and Respected Principal who organized this program for us. I hope we can participate in the future programs as well"
- d. "Thank you all the teachers who guide us today and the Principal for inviting us here today"
- e. "Thank you for everything"
- f. "It is very good and thank you for this Program"

<u>APPENDICES</u> (Geotagged Photos)

Some of the visuals from the Workshop are presented below:









REPORT OF THE WORKSHOP ON

"Capacity Building, Sensitization and Awareness in Basic Science for Higher Secondary Science Students of Shillong"

Conducted on 9th September 2023



ORGANISED RY

Advanced Biotechnology Research Laboratory, St. Edmund's College, Shillong

In collaboration with

The Internal Quality Assurance Cell (IQAC), St. Edmund's College, Shillong, and the Department of Biotechnology, St. Edmund's College, Shillong

CONTENTS

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I am also thankful for the support of **Br. (Dr.) Simon Coelho**, Principal, St. Edmund's College, Shillong.

The two Resource Persons — Br. Stelljes Julius (Bursar, Department of Electronics, St. Edmund's College) and Dr. D. Syiemiong (Professor, Department of Botany, St. Edmund's College) — delivered well-received talks, which accommodated the students' rudimentary understanding of *workshop* in the Life Sciences and motivated them to explore the realm of Sciences and Computer.

Technical and logistical support, provided by **Bah Erwin Kshiar**, Lab Assistant, Department of Biotechnology, St. Edmund's College, Shillong, was invaluable.

The dedication of the students and also the Principal and Staff of Pliti Syiem Memorial Higher Secondary School, Laitkor, Shillong, in attending a workshop which was external to their syllabus-regimented learning, is highly appreciated.

1. **GENERAL INFORMATION**

Title of the Course: "Capacity Building, Sensitization and Awareness in Basic Science for Higher Secondary Science students of Shillong"

Duration of Workshop: 3 Hours

Date of Workshop: 9th September 2023

Opening of registration process: 9:00 A.M

Mode of Registration: Offline

Total No of Students Enrolled: 15

Registration Fees: None

Workshop Coordinator:

External Speakers Involved:

WORKSHOP STRUCTURE:

The subsequent sub-section will highlight various aspects of the Workshop, such as workshop Description, the Programme, interactions, and feedback etc.

a. Workshop Description:

Workshop:

Workshop is a presenter-led experience which includes challenges and learning for the groups to understand as they go through the workshop.

b. Programme of the Workshop:

This workshop was divided into two sessions. These sessions were presented by Br. Stelljes Julius from the Department of Electronics and the other by Dr. D. Syiemiong of the Botany Department. The programme of the workshop is listed in the table below:

Session	Topic	Presenter	Hours	Date
I		Br. Stelljes Julius	1	9 th September, 2023
II		Dr. D. Syiemiong	1	9 th September, 2023

Apart from the 2 hour session, half-an-hour was allotted for the assessment of the students' and their feedback on the conduct and *content* of the workshop.

c. Mode of conduct of the Workshop:

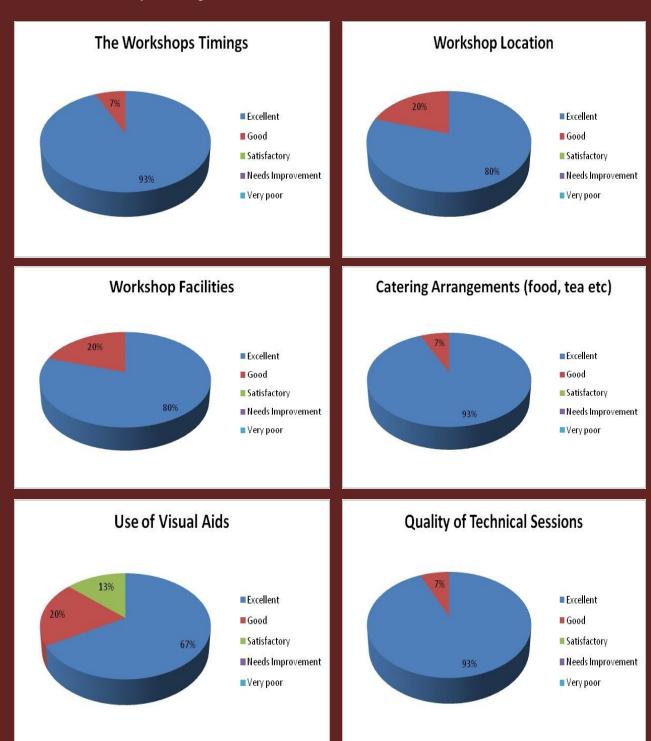
The workshop was held offline, over a period of One-day. The duration of each session was one hour, with the total workshop comprised of a total three hours. The Workshop was hosted by Shekinah Challam, Co-PI & Organizing Secretary.

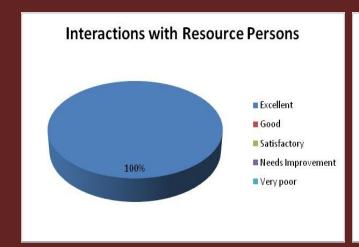
LIST OF REGISTERED PARTICIPANTS

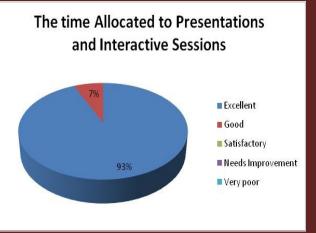
Sl.no	Name of the Participant	Class	Institution	Phone no
1	Kitboklang Dkhar	10th	Pliti Syiem Memorial Higher Secondary School	7085851881
2	Symsharly Mylliemngap	10th	Pliti Syiem Memorial Higher Secondary School	9366196610
3	Bandaplang Surong	10th	Pliti Syiem Memorial Higher Secondary School	9402364022
4	Theodore Lamare	10th	Pliti Syiem Memorial Higher Secondary School	8732024421
5	Kynsailang Kharlukas	10th	Pliti Syiem Memorial Higher Secondary School	6909565682
6	Sakhiat Sten	10th	Pliti Syiem Memorial Higher Secondary School	9774288837
7	Ibarikordor K. Bihkhiew	10th	Pliti Syiem Memorial Higher Secondary School	7640952427
8	Daphibanbet K. Kongor	10th	Pliti Syiem Memorial Higher Secondary School	8974563629
9	Wanbha Ryngkhlem	10th	Pliti Syiem Memorial Higher Secondary School	N/A
10	Ribakmen Nongkhlaw	10th	Pliti Syiem Memorial Higher Secondary School	6033111658
11	Dawanhun Surong	10th	Pliti Syiem Memorial Higher Secondary School	N/A
12	Emidaka Kharduit	10th	Pliti Syiem Memorial Higher Secondary School	8974465419
13	Ilawanbet Lating	10th	Pliti Syiem Memorial Higher Secondary School	6909563235
14	Lasara Cressa Kharkongor	10th	Pliti Syiem Memorial Higher Secondary School	6033110145
15	Wanbe Mawrie	10th	Pliti Syiem Memorial Higher Secondary School	8259037219

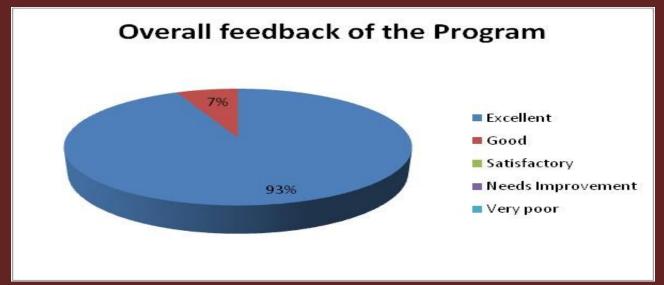
Feedback from the Students

Out of the 15 students who participated for this workshop, all 15 of them responded for the feedback. The analysis is depicted below:









Do you have any <u>SUGGESTIONS/COMMENTS</u> for the Workshop Facilitator on how to improve this Workshop?

- a. It was a really informative workshop. Would like to have such similar workshop more often. Facilitators were really interactive and helpful. Overall, it was a good experience.
- b. It was quite interesting & good. No need of improvement.
- c. We liked both the sessions as we get to learn new things.

APPENDICES

Some of the visuals from the Workshop are presented below:











Shillong, Meghalaya, India St. Edmund's College, HV8W+RMR, Laitumkhrah, Shillong, Meghalaya 793003, India Lat 25.567123° Long 91.897139° 09/09/23 09:24 AM GMT +05:30









REPORT OF THE WORKSHOP ON

"Capacity Building, Sensitization and Awareness in Basic Science for Higher Secondary Science Students of Shillong"

Conducted on 14th October 2023



ORGANISED BY

Advanced Biotechnology Research Laboratory, St. Edmund's College, Shillong

In collaboration with

The Internal Quality Assurance Cell (IQAC), St. Edmund's College, Shillong, and the Department of Biotechnology, St. Edmund's College, Shillong

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I am also thankful for the support of **Br. (Dr.) Simon Coelho**, Principal, St. Edmund's College, Shillong, Prof. Monotosh Chakravarty, vice Principal (Admin), Dr. (Capt) K. P. Pallavi Malhan Vice Principal (Acad) and Dr. B.W. Nongbri, Dean, St. Edmund's College for their present.

The Two Resource Persons — Ms. Shekinah Challam from the Department of Biotechnology, and Dr. B. P Thangkiew of the Electronics Department, St. Edmund's College — delivered well-received talks, which accommodated the students' rudimentary understanding of *workshop* in the Life Sciences and motivated them to explore the realm of Sciences and its important.

Technical and logistical support, provided by **Bah Erwin Kshiar**, Lab Assistant, Department of Biotechnology, St. Edmund's College, Shillong, was invaluable.

The dedication of the students and also the Principal and Staff of Meghalaya Hindu Mission Higher Secondary School, Shillong, in attending a workshop which was external to their syllabus-regimented learning, is highly appreciated.



GENERAL INFORMATION

Title of the Course: "Capacity Building, Sensitization and Awareness in Basic Science for

Higher Secondary Science students of Shillong"

Duration of Workshop: 3 Hours

Date of Workshop: 14th October 2023

Opening of registration process: 9:00 A.M

Mode of Registration: Offline

Total No of Students Enrolled: 26

Registration Fees: None

Workshop Coordinator: Ms. Shekinah Challam

External Speakers Involved: Nil



WORKSHOP STRUCTURE:

The subsequent sub-section will highlight various aspects of the Workshop, such as workshop Description, the Program, interactions, and feedback etc.

a. Workshop Description:

Workshop:

Workshop is a presenter-led experience which includes challenges and learning for the groups to understand as they go through the Sessions.

b. Program of the Workshop:

This workshop was divided into two sessions. These sessions were presented by Ms. Shekinah Challam from the Department of Biotechnology and the other by Dr. B. P. Thangkhiew of the Electronics Department. The program of the workshop is listed in the table below:

Session	Topic	Presenter	Hours	Date
I		Ms. Shekinah Challam	1	14 th October,
				2023
II		Dr. B. P. Thangkiew	1	14 th October,
				2023

Apart from the 2 hour session, half-an-hour was allotted for the assessment of the students' and their feedback on the conduct and *content* of the workshop.

c. Mode of conduct of the Workshop:

The workshop was held offline, over a period of One-day. The duration of each session was one hour, with the total workshop comprised of a total three hours. The Workshop was hosted by Ms. Shekinah Challam, Co-PI & Organizing Secretary and also the Resource Person of that day.

LIST OF REGISTERED PARTICIPANTS

SI. No	Name of the Participants	Class	Institution	Phone no
			Meghalaya Hindu Mission	
1	Mitra Das	10	Higher Secondary School	9863302742
			Meghalaya Hindu Mission	
2	Prajukta Dey	10	Higher Secondary School	6009488474
			Meghalaya Hindu Mission	
3	Payal Ghosh	10	Higher Secondary School	6033092610
			Meghalaya Hindu Mission	
4	Papiya Sen	10	Higher Secondary School	8798623407
			Meghalaya Hindu Mission	
5	Sanjukta Dey	10	Higher Secondary School	6009488474
			Meghalaya Hindu Mission	
6	Himadri Dey	10	Higher Secondary School	6909908906
			Meghalaya Hindu Mission	
7	Madhumita Das	10	Higher Secondary School	6009231662
			Meghalaya Hindu Mission	
8	Sumita Kuri	10	Higher Secondary School	8131839138
			Meghalaya Hindu Mission	
9	Anjum Jyrwa	10	Higher Secondary School	8798998891
			Meghalaya Hindu Mission	
10	Sonali Deb	10	Higher Secondary School	9863400399
			Meghalaya Hindu Mission	
11	Vaishali Ghosh	10	Higher Secondary School	9863400399
			Meghalaya Hindu Mission	
12	Rita Chanda	10	Higher Secondary School	7005214900
			Meghalaya Hindu Mission	
13	Juthi Paul	10	Higher Secondary School	7005125517
			Meghalaya Hindu Mission	
14	Gulnisha Khatoon	10	Higher Secondary School	7005895170
			Meghalaya Hindu Mission	
15	Aditya Paul	10	Higher Secondary School	8794308105
			Meghalaya Hindu Mission	
16	Satyajit Dutta	10	Higher Secondary School	7085955325
			Meghalaya Hindu Mission	
17	Jeet Sarkar	10	Higher Secondary School	8794733622
			Meghalaya Hindu Mission	
18	Khadeja Begum	10	Higher Secondary School	9436306709

			Meghalaya Hindu Mission	
19	Abrar Alam	10	Higher Secondary School	9089465064
			Meghalaya Hindu Mission	
20	Mohammad Arshad	10	Higher Secondary School	8798376061
			Meghalaya Hindu Mission	
21	Sameer Mansuri	10	Higher Secondary School	6033041007
			Meghalaya Hindu Mission	
22	Ejaz Lyngdoh	10	Higher Secondary School	9366880769
			Meghalaya Hindu Mission	
23	Sujal Paul	10	Higher Secondary School	8794568474
			Meghalaya Hindu Mission	
24	Anushka Chakraborty	10	Higher Secondary School	8794712235
			Meghalaya Hindu Mission	
25	Reshmi Debnath	10	Higher Secondary School	8837326696
			Meghalaya Hindu Mission	
26	Aditi Rabha	10	Higher Secondary School	8257845388

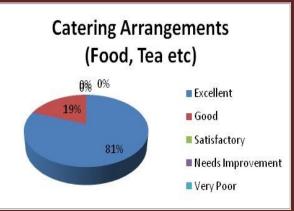
Feedback from the Students

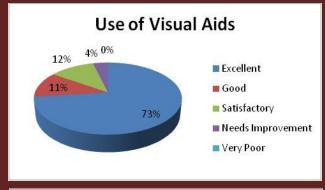
Out of the 26 students who participated for this workshop, all 26 of them responded for the feedback. The analysis is depicted below. Click here for data



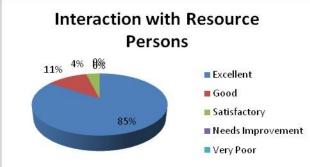


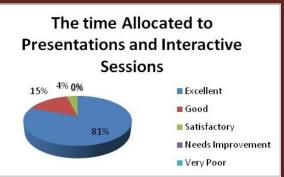














Do you have any <u>SUGGESTIONS/COMMENTS</u> for the Workshop Facilitator on how to improve this Workshop?

- a. "It was our first time to visit St. Edmund's College and it was a wonderful memorial day to me because I have gained most of the knowledge about science and technology, which was unknown to me"
- b. "It was our first time to visit St. Edmund's College and we gained the useful things from both the sessions. I would like to visit again if I get any opportunity. Thank you"
- c. "It was a good Workshop"

<u>APPENDICES</u> (Geotagged Photos)

Some of the visuals from the Workshop are presented below:











REPORT OF THE WORKSHOP ON

"Capacity Building, Sensitization and Awareness in Basic Science for Higher Secondary Science Students of Shillong"

Conducted on 23rd September 2023



ORGANISED RY

Advanced Biotechnology Research Laboratory, St. Edmund's College, Shillong

In collaboration with

The Internal Quality Assurance Cell (IQAC), St. Edmund's College, Shillong, and the Department of Biotechnology, St. Edmund's College, Shillong

CONTENTS

- 1. ACKNOWLEDGEMENTS
- 2. GENERAL INFORMATION
- 3. WORKSHOP STRUCTURE
 - a. Workshop Description
 - b. Programme of the Workshop
 - c. Mode of Conduct of the Workshop
- 4. LIST OF REGISTERED PARTICIPANTS
- 5. FEEDBACK ANALYSIS
- 6. FINANCIAL STATEMENT
- 7. APPENDICES
 - a. Geotagged Photos

ACKNOWLEDGEMENTS

This Workshop was held in Biotech Hub Facility, St. Edmund's College, Shillong — would not have come to fruition had it not been for the guidance and *enthusiasm* of **Dr. Samrat Adhikari**, Head, Department of Biotechnology, St. Edmund's College, Shillong.

I am also thankful for the support of **Br. (Dr.) Simon Coelho**, Principal, St. Edmund's College, Shillong.

The four Resource Persons — Prof. Iasyllok Rynjah & Prof. Michelle D. Khongwir of the Department of Environmental Science, and Dr. G. Paul & Prof. Koben John Nongkynrih of the Department of Biotechnology, St. Edmund's College — delivered well-received talks, which accommodated the students' rudimentary understanding of *workshop* in the Life Sciences and motivated them to explore the realm of Sciences and its important.

Technical and logistical support, provided by **Bah Erwin Kshiar**, Lab Assistant, Department of Biotechnology, St. Edmund's College, Shillong, was invaluable.

The dedication of the students and also the Principal and Staff of D. M Syiem Memorial Higher Secondary School, Nongthymmai, Shillong, in attending a workshop which was external to their syllabus-regimented learning, is highly appreciated.

1. GENERAL INFORMATION

Title of the Course: "Capacity Building, Sensitization and Awareness in Basic Science for

Higher Secondary Science students of Shillong"

Duration of Workshop: 3 Hours

Date of Workshop: 23rd September 2023

Opening of registration process: 9:00 A.M

Mode of Registration: Offline

Total No of Students Enrolled: 30

Registration Fees: None

Workshop Coordinator: Ms. Shekinah Challam

External Speakers Involved: Nil

WORKSHOP STRUCTURE:

The subsequent sub-section will highlight various aspects of the Workshop, such as workshop Description, the Program, interactions, and feedback etc.

a. Workshop Description:

Workshop:

Workshop is a presenter-led experience which includes challenges and learning for the groups to understand as they go through the workshop.

b. Program of the Workshop:

This workshop was divided into two sessions. These sessions were presented by Prof. Iasyllok Rynjah & Prof. Michelle D. Khongwir from the Department of Environmental Science and the other by Dr. G. Paul and Prof. Koben John Nongkynrih of the Biotechnology Department. The programme of the workshop is listed in the table below:

Session	Topic	Presenter	Hours	Date
Ι		Prof. iasyllok Rynjah	1	23 rd September,
		Prof. Michelle D.		2023
		Khongwir		
II		Dr. G. Paul	1	23 rd September,
		Prof. Koben John		2023
		Nongkynrih		

Apart from the 2 hour session, half-an-hour was allotted for the assessment of the students' and their feedback on the conduct and *content* of the workshop.

c. Mode of conduct of the Workshop:

The workshop was held offline, over a period of One-day. The duration of each session was one hour, with the total workshop comprised of a total three hours. The Workshop was hosted by Shekinah Challam, Co-PI & Organizing Secretary.

LIST OF REGISTERED PARTICIPANTS

	Name of the			
Sl.no	Participant	Class	Institution	Phone no
			D.M Syiem Memorial	
1	Zephaniah D. Kharbithai	10th	Higher Secondary School	879478728
			D.M Syiem Memorial	
2	Risanbha Mawnar	10th	Higher Secondary School	7641811409
			D.M Syiem Memorial	
3	Ryan Mukhim	10th	Higher Secondary School	8798382463
	Steveward Gift		D.M Syiem Memorial	
4	Kharkongor	10th	Higher Secondary School	7629036356
			D.M Syiem Memorial	
5	Damantre Lamare	10th	Higher Secondary School	9362703522
			D.M Syiem Memorial	
6	Shiborlang Pyrtuh	10th	Higher Secondary School	8415018626
			D.M Syiem Memorial	
7	Yaditya Ranjan	10th	Higher Secondary School	9233274586
			D.M Syiem Memorial	
8	Ayush Kumar Thakur	10th	Higher Secondary School	9612095616
			D.M Syiem Memorial	
9	Ladyhawk Mylliemngap	10th	Higher Secondary School	6009150226
			D.M Syiem Memorial	
10	Shabalet Papiah	10th	Higher Secondary School	8132051775
			D.M Syiem Memorial	
11	Aryan Minno	10th	Higher Secondary School	7642909247
			D.M Syiem Memorial	
12	Batista Suchiang	10th	Higher Secondary School	8822458446
			D.M Syiem Memorial	
13	Lamondame Khongwir	10th	Higher Secondary School	9862856431
			D.M Syiem Memorial	
14	Lalbiakhlua	10th	Higher Secondary School	8257868558
			D.M Syiem Memorial	
15	Melamshwa K. Kamni	10th	Higher Secondary School	9402384029
16	Gabriel Lyngdoh	10th	D.M Syiem Memorial	8414812749

	Mawphlang		Higher Secondary School	
17	Kriton Hajong	10th	D.M Syiem Memorial Higher Secondary School	N/A
1/	Kittoli Hajolig	10111	D.M Syiem Memorial	N/A
18	Robin Jyrwa	10th	Higher Secondary School	8575251658
			D.M Syiem Memorial	
19	Charity Khonglah	10th	Higher Secondary School	9362313695
			D.M Syiem Memorial	
20	Ridabiang Shyrmang	10th	Higher Secondary School	9862060090
			D.M Syiem Memorial	
21	Daroiki Phawa	10th	Higher Secondary School	8415022051
			D.M Syiem Memorial	
22	Roshni Sinha	10th	Higher Secondary School	8794801745
			D.M Syiem Memorial	
23	Havella Marbaniang	10th	Higher Secondary School	6909167854
		101	D.M Syiem Memorial	
24	Wanbhabiang Myrboh	10th	Higher Secondary School	7930754607
25	NACH CHARLES CONTROL	401	D.M Syiem Memorial	0074664043
25	Medarishisha Syiemlieh	10th	Higher Secondary School	8974661813
26	T. Lalruatdiki	10th	D.M Syiem Memorial Higher Secondary School	6033020804
20	i. Laii uatuiki	10111		0033020604
27	H. Lalremruati	10th	D.M Syiem Memorial Higher Secondary School	6009136476
21	ii. Laireiiii uati	10111	D.M Syiem Memorial	0003130470
28	Silvania	10th	Higher Secondary School	9862908728
_0	Sirvariia	20011	D.M Syiem Memorial	3002300720
29	Rozy Sohtun	10th	Higher Secondary School	9862239154
			D.M Syiem Memorial	
30	Pinnacle Kshiar	10th	Higher Secondary School	9863408894



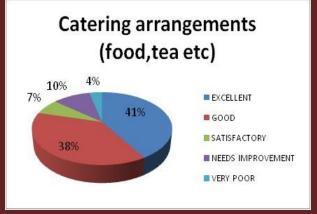
Feedback from the Students

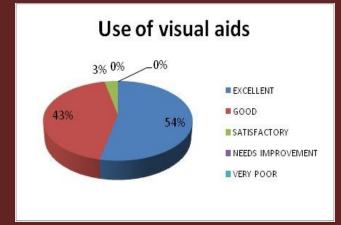
Out of the 15 students who participated for this workshop, all 15 of them responded for the feedback. The analysis is depicted below: <u>Click here for the data</u>



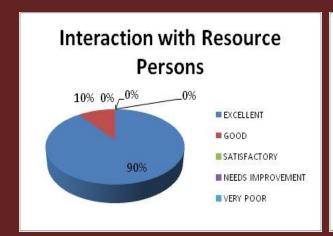


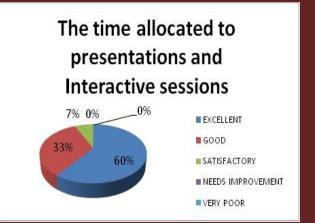


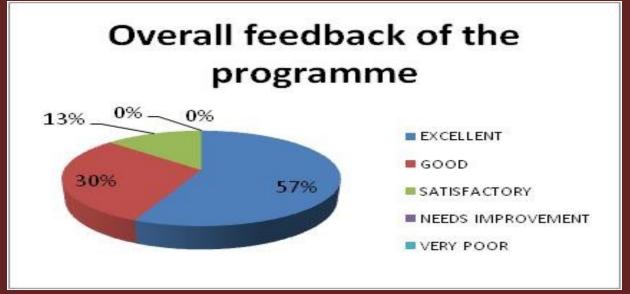












Do you have any <u>SUGGESTIONS/COMMENTS</u> for the Workshop Facilitator on how to improve this Workshop?

- a. It was a really informative workshop. Would like to have such similar workshop more often. Facilitators were really interactive and helpful. Overall, it was a good experience.
- b. We liked both the sessions as we get to learn new things.
- c. We learn something new and good.
- d. Both the sessions were great.
- e. Biotechnology session is the most useful as it helps us understand a lot about the blood group and today; we even got to know about our own blood group.
- f. "I find all the session helpful and useful. Therefore I would like to thank all the resource person who give me the opportunity to experience such a wonderful lesson"

APPENDICES (Geotagged Photos)

Some of the visuals from the Workshop are presented below:







REPORT OF THE WORKSHOP ON

"Capacity Building, Sensitization and Awareness in Basic Science for Higher Secondary Science Students of Shillong"

Conducted on 26th August 2023



ORGANISED BY

Advanced Biotechnology Research Laboratory, St. Edmund's College, Shillong

In collaboration with

The Internal Quality Assurance Cell (IQAC), St. Edmund's College, Shillong, and the Department of Biotechnology, St. Edmund's College, Shillong

CONTENTS

- 1. ACKNOWLEDGEMENTS
- 2. GENERAL INFORMATION
- 3. WORKSHOP STRUCTURE
 - a. Workshop Description
 - b. Programme of the Workshop
 - c. Mode of Conduct of the Workshop
- 4. LIST OF REGISTERED PARTICIPANTS
- 5. FEEDBACK ANALYSIS
- 6. FINANCIAL STATEMENT
- 7. APPENDICES
 - a. Appendix A (Brochure)

ACKNOWLEDGEMENTS

This Workshop was held in Biotech Hub Facility, St. Edmund's College, Shillong — would not have come to fruition had it not been for the guidance and *enthusiasm* of **Dr. Samrat Adhikari**, Head, Department of Biotechnology, St. Edmund's College, Shillong.

I am also thankful for the support of **Br. (Dr.) Simon Coelho**, Principal, St. Edmund's College, Shillong.

The two Resource Persons — Prof. Koben John Nongkynrih (Assistant Professor, Department of Biotechnology, St. Edmund's College) and Dr. Duwaki Rangad (Department of Zoology, St. Edmund's College) — delivered well-received talks, which accommodated the students' rudimentary understanding of Life Sciences and motivated them to explore the realm of Sciences.

Technical and logistical support, provided by **Bah Erwin Kshiar**, Lab Assistant, Department of Biotechnology, St. Edmund's College, was invaluable.

The dedication of the students and also the Principal and Staff of Bengalee Boys' Higher Secondary School Shillong, in attending a workshop which was external to their syllabus-regimented learning, is highly appreciated.

GENERAL INFORMATION

Title of the Course: Capacity Building, Sensitization and Awareness in Basic Science for

Higher Secondary Science students of Shillong

Duration of Workshop: 3 and Half Hours

Date of Workshop: 26th August 2023

Opening of registration process: 9:00 A.M

Mode of Registration: Offline

Total No of Students Enrolled: 14

Registration Fees: None

Workshop Coordinator:

External Speakers Involved:

WORKSHOP STRUCTURE

The subsequent sub-section will highlight various aspects of the Workshop, such as workshop Description, the Programme, interactions, and feedback etc.

a. Workshop Description:

Workshop:

Workshop is a presenter-led experience which includes challenges and learning for the groups to understand as they go through the workshop.

b. Programme of the Workshop:

This workshop was divided into two sessions. These sessions were presented by Asst. Prof. Koben John Nongkynrih from the Biotechnology Department and the other by Dr. Duwaki Rangad of the Zoology Department. The programme of the workshop is listed in the table below:

Session	Topic	Presenter	Hours	Date
I	Introduction to Zoology: Scope and	Dr. Duwaki Rangad	1	26 th August,
	Research Prospects			2023
II	Biotechnology: Introduction and	Prof. Koben John	1	26 th August,
	Career Prospects	Nongkynrih		2023
	Isolation of Mitochondria from	_		
	Chicken liver (Practical)			

Apart from the 2 hour session, half-an-hour was allotted for the assessment of the students' and their feedback on the conduct and *content* of the workshop.

c. Mode of conduct of the Workshop:

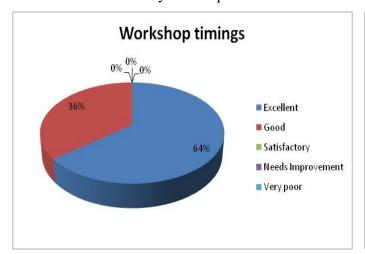
The workshop was held offline, over a period of One-day. The duration of each session was one and half hours, with the total workshop comprised of a total three and half hours. The Workshop was hosted by Shekinah Challam, Co-PI & Organizing Secretary.

LIST OF REGISTERED PARTICIPANTS

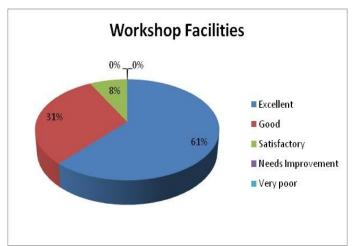
Sl.n				Phone
О	Name of Participant	Class	Institution	Number
			Laban Bengalee Boys' Higher	
1	Md. Danish Siddigui	12	Secondary School	6909110590
			Laban Bengalee Boys' Higher	
2	Depdeep Chanda	12	Secondary School	7085168705
			Laban Bengalee Boys' Higher	
3	Shubham Shah	12	Secondary School	9366838054
			Laban Bengalee Boys' Higher	
4	Stevenson Nongkhlaw	12	Secondary School	9863155168
			Laban Bengalee Boys' Higher	
5	Ringrang R. Sangma	12	Secondary School	7005942805
			Laban Bengalee Boys' Higher	
6	Mandeisuk Phalangki	12	Secondary School	7630043439
			Laban Bengalee Boys' Higher	
7	Emdorlang Syiemlieh	12	Secondary School	8798532582
	Banpynshngainlang		Laban Bengalee Boys' Higher	
8	Mukhim	12	Secondary School	9632705355
			Laban Bengalee Boys' Higher	
9	Sonu Kumar	12	Secondary School	9366817517
			Laban Bengalee Boys' Higher	
10	Vishal Paul	12	Secondary School	9774140232
			Laban Bengalee Boys' Higher	
11	Rajesh Kumar	12	Secondary School	7085780203
			Laban Bengalee Boys' Higher	
12	Jay Paul	12	Secondary School	8787594375
			Laban Bengalee Boys' Higher	
13	Bijoy Paul	12	Secondary School	8476066744
			Laban Bengalee Boys' Higher	
14	Eayas Rahman	12	Secondary School	9612862191

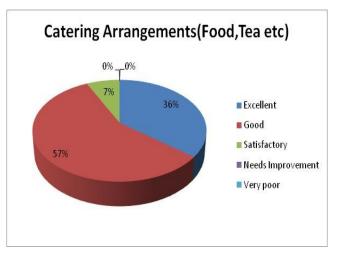
Feedback from the Students

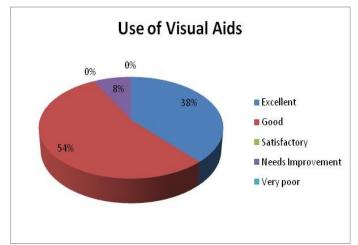
Out of the 14 students who participated for this workshop, all 14 of them responded for the feedback. The analysis is depicted below

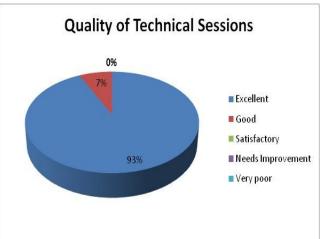


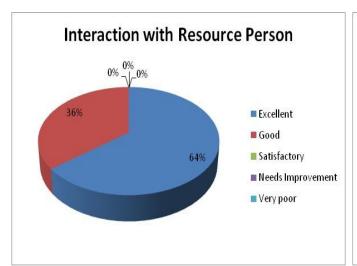


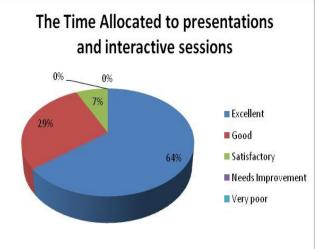


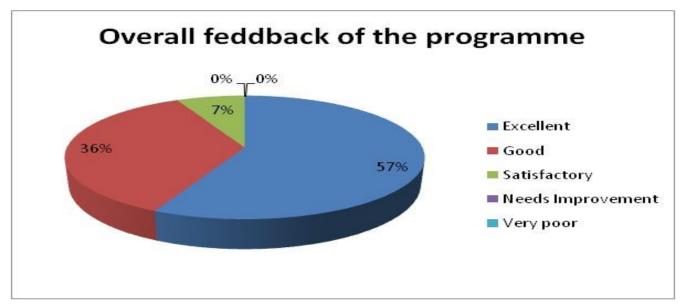












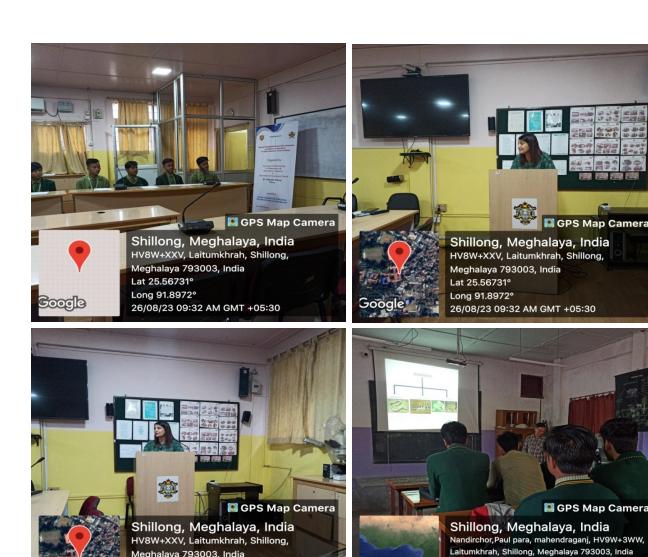
Do you have any <u>SUGGESTIONS</u> for the Workshop Facilitator on how to improve this Workshop?*

- a. It was a really informative workshop. Would like to have such similar workshop more often. Facilitators were really interactive and helpful. Overall, it was a good experience.
- b. It was quite interesting & good. No need of improvement.
- c. Very helpful as we got to learn new things.

^{*} The most significant suggestions are included here.

APPENDICES

Some of the visuals from the Workshop are presented below:



Meghalaya 793003, India

26/08/23 09:33 AM GMT +05:30

Lat 25.567238°

Long 91.89732°

GPS Map Camera

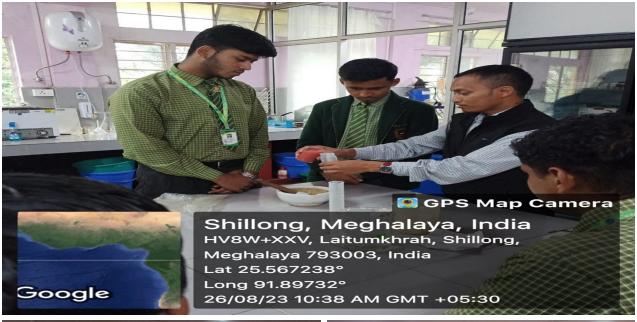
GPS Map Camera

Lat 25.567554°

Long 91.897088°

26/08/23 11:45 AM GMT +05:30

Google







REPORT OF THE WORKSHOP ON

"Capacity Building, Sensitization and Awareness in Basic Science for Higher Secondary Science Students of Shillong"

Conducted on 9th of March 2024



ORGANISED BY

Advanced Biotechnology Research Laboratory, St. Edmund's College, Shillong

In collaboration with

The Internal Quality Assurance Cell (IQAC), St. Edmund's College, Shillong, and the Department of Biotechnology, St. Edmund's College, Shillong

CONTENTS

- 1. ACKNOWLEDGEMENTS
- 2. GENERAL INFORMATION
- 3. WORKSHOP STRUCTURE
 - a. Workshop Description
 - b. Program of the Workshop
 - c. Mode of Conduct of the Workshop
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- 5. FEEDBACK ANALYSIS
- 6. APPENDICES
 - a. Geotagged Photos

ACKNOWLEDGEMENTS

This Workshop was held in Biotech Hub Facility, St. Edmund's College, Shillong — would not have come to fruition had it not been for the guidance and enthusiasm of **Dr.**Samrat Adhikari, Head, Department of Biotechnology, St. Edmund's College, Shillong.

I am also thankful for the support of **Br. (Dr.) Simon Coelho**, Principal, St. Edmund's College, Shillong, for his presence and delivered a keynote address to the students.

The Two Resource Persons — Dr. Duwaki Rangad, from the Department of Zoology, and Dr. James Wahlang of the Biochemistry Department, St. Edmund's College — delivered a well-received talks, which accommodated the students' rudimentary understanding of the workshop and the topic that they been taught in relations to Life Sciences and motivated them to explore the realm of Sciences and its important.

Technical and logistical support, provided by **Bah Erwin Kshiar**, Lab Assistant, Department of Biotechnology, St. Edmund's College, Shillong, was invaluable.

The dedication of the students and Staff of Loreto Convent, Shillong, in attending a workshop which was external to their syllabus-regimented learning, is highly appreciated, and I'm also thankful to the Principal of Loreto Convent, for allowing the Students to participate in the Workshop.



GENERAL INFORMATION

Title of the Course: "Capacity Building, Sensitization and Awareness in Basic Science for

Capacity Building/Motivational talk, awareness, sensitization on Bioscience for Higher Secondary School students

Organized by

Department of Biotechnology In Collaboration with Department of Chemistry

Department of Environmental Science St. Edmund's College

Sponsored by

MENT OF BIOTECHNOLOGY, GOVT. OF INDIA. NEW DELHI
VANCED INSTITUTIONAL LEVEL BIOTECH HUB (PHASE II)

Higher Secondary Science students of Shillong"

Duration of Workshop: 3 Hours

Date of Workshop: 9th of March 2024

Opening of registration process: 9:00 A.M

Mode of Registration: Offline

Total No of Students Enrolled: 13

Registration Fees: None

Workshop Coordinator: Ms. Shekinah Challam

External Speakers Involved: Nil

WORKSHOP STRUCTURE:

The subsequent sub-section will highlight various aspects of the Workshop, such as workshop Description, the Program, interactions, and feedback etc.

a. Workshop Description:

Workshop:

Workshop is a presenter-led experience which includes challenges and learning for the groups to understand as they go through the Sessions.

b. Program of the Workshop:

This workshop was divided into two sessions. These sessions were presented by Dr. Duwaki Rangad from the Department of Zoology and the other by Dr. James Wahlang of the Biochemistry Department. The sessions of the workshop is listed in the table below:

Session	Presenter	Hours	Date
I	Dr. Duwaki Rangad	1	9 th March, 2024
II	Dr. James Wahlang	1	9 th March, 2024

Apart from the 2 hour session, half-an-hour was allotted for the assessment of the students' and their feedback on the conduct and *content* of the workshop.

c. Mode of conduct of the Workshop:

The workshop was held offline, over a period of One-day. The duration of each session was one hour; altogether, it extends to three hours. The Workshop was hosted by Ms. Shekinah Challam, Co-PI & Organizing Secretary of the Workshop.

LIST OF REGISTERED PARTICIPANTS



"Capacity Building, Sensitization and awareness in Basic Science for Higher Secondary Science Students of Shillong" Organised by Advanced Biotechnology Research Laboratory 09th March., 2024 REGISTRATION DETAILS

	Name of Participant	Class	Institution	Phone Number	Signature
	IN BLOCK LETTERS				
1)	SOCHANPHY KASHUNG	XII	Loreto Convent	6009181549	Sochamphy
2)	MICHELLE KHONGTHA	XII	Loreto Convent	8257991134	Milat
3)	KASHUNG SHIMRAY 90CHISHIN	XII	Kouto Convent	8730913628	us fochistin
4)	SHELANE SYLVIA	XII	treuna ateras	6909428321	Indiane Sylvia
5)	AAHANA PAUL CHOUDHURY	XII	LORETO CONVENT	9863100552	Anlana
6)	ADELLA . I . KONGWANG		LORETO CONVENT	7005000581	admit
7)	VEISANE LADUMAI	刻	LORETO CONVENT	8732070495	Badumai
8)	PRISSICA · N. SHADAP	亚	LORETO CONVENT	9 366037109	Blick
9>	ASHIANA A. KHARPOR	XII	LORETO CONVENT	8794701887	deliana Penartia.

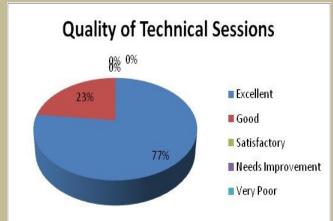
10.	LAWANHUN M. JANA	XII	LORE TO CONVENT	9798458357	Lessona
11.	ANDREA M. WAHLANG	XII	LOLETO CONVENT	6033146067	andre
12.	NAMSA RHEANNA M DHAR	ΣŪ	LORETO CONVENT	9863013768	Loya
13	SHRISHTI AGARWAL	XII	LORETO CONVENT	9089468198	Mushti

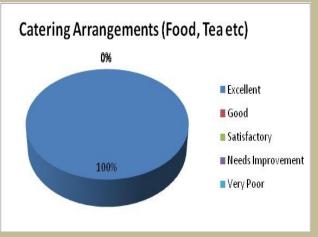
Feedback from the Students

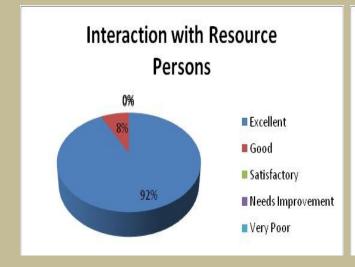
Out of the 13 students who participated for this workshop, all 13 of them responded for the feedback. The analysis is depicted below. <u>Click here for data</u>

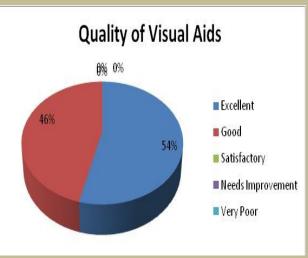




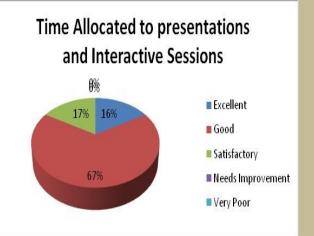


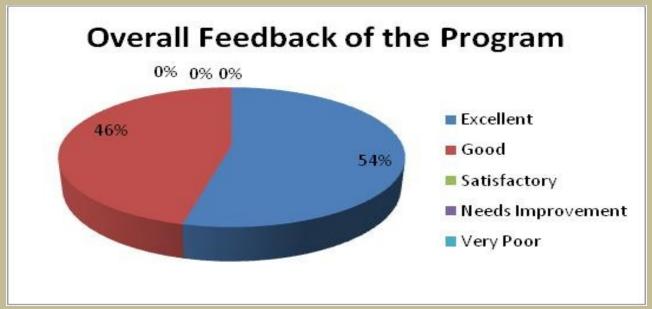












Some of the <u>SUGGESTIONS/COMMENTS</u> for the Workshop Facilitator on how to improve this Workshop are listed below:

- a. "Interesting and Helpful"
- b. "The sessions were very engaging and interesting. The Resource persons were very nice. The sessions were very informative and we gained very valuable knowledge, Thank you for this wonderful opportunity".

APPENDICES (Geo-tagged Photos)

Some of the visuals from the Workshop are presented below:









