

REPORT OF THE WORKSHOP ON
“Chemistry Based Applications”

Conducted on 15th & 16th September 2023



ORGANISED BY

The Department of Chemistry

In collaboration with

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

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ACKNOWLEDGEMENTS

This Workshop was held in the Chemistry AV Room/Laboratory Room, 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, and **Dr. Sumit Deb**, Head, Department of Chemistry, 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. Baristar Lyngkhoi (Department of Chemistry, St. Edmund's College) and Dr. Iadeishisha Kharbangar (Department of Chemistry, St. Edmund's College) — delivered well-received presentation, which accommodated the students' rudimentary understanding of the *workshop* in the field of Chemistry with the emphasis on the topic of Candle making and Soap Preparation.

The dedication of the students in attending the workshop which was external to their syllabus-regimented learning, is highly appreciated.

GENERAL INFORMATION

Title of the Course: “Chemistry Based Applications”

Date of Workshop: 15th & 16th September 2023

Timing of Workshop: 1 P.M Onwards

Total No of Students Participated: 75

Workshop Coordinator: Dr. Khrawborlang Nongsiej

External Speakers Involved: Nil

WORKSHOP STRUCTURE:

The subsequent sub-section will highlight various aspects of the Workshop, the Programme, interactions, Practical and feedback etc.

a. Programme of the Workshop:

This workshop was divided into two module. These module were presented by Prof. Baristar Lyngkhoi and Dr. Iadeishisha Kharbangar from the Chemistry Department. The programme of the workshop is listed in the table below:

Module	Topic	Presenter	Date
I	“Candle making”	Prof. Baristar Lyngkhoi	15 th September, 2023
II	“Soap preparation”	Dr. Iadeishisha Kharbyngar	16 th September, 2023



The workshop begins with Inauguration program at 1 P.M and it was graced by the Teachers of the Chemistry Department along with Dr, Samrat Adhikari HOD, Department of Biotechnology and also the Principal, Dr. Br. Simon Coelho.



The Inauguration started with a welcome speech which was presented by Dr. Sumit Deb, HOD, Department of Chemistry, followed by a speech from Dr. Samrat Adhikari, explaining the students on the needs to be a little pro-active and broad minded about using their business mind, and also took the time to explain about the aim of the workshop for the betterment of the students. The inauguration program was concluded with vote of Thanks from Dr. Khrawborlang, Co-PI and organizing secretary of the Workshop.



Module-1

The first module of the workshop was presented by Sir. Baristar Lyngkhoi, emphasizing on the topic of Candle Making. During his presentation, Sir took the time to explain about the history of candle and how it was made. He also explains about the chemistry behind burning of the candles and also the different types of wax used in making candles, and its manufacturing process. The presentation was followed by demonstrating the students on how the candles were made using the process of melting the wax under flame/ heating plate and pouring the liquid melt in the available mould for solidification.



Demonstration



Heating the Wax



Mould



Final Product



Module-2

The second module was presented by Dr. Iadeishisha Kharbangar emphasizing on the topic of Soap Preparation. In her presentation, Dr. Kharbangar talks about the history of soaps, on how it is made and the process of soap making (Saponification). Towards the end of the presentation, she talked about Soap manufacturing and the process used in the laboratory. The presentation was followed by demonstrating the students on how the soaps were made using the Hot Process in the Lab.



Demonstration



Heating



Final Product

b. Mode of conduct of the Workshop:

The workshop was held offline, over a period of two-days. Each session was divided into two sections namely, theory and practical. The practical demonstration of both the modules were conducted in the Chemistry laboratory and the Workshop was coordinated by Dr. Khrawborlang Nongsiej, Co-PI & Organizing Secretary.

LIST OF REGISTERED PARTICIPANTS

Timestamp	Email Address	Name of the Participant	Department	Semester	Contact No
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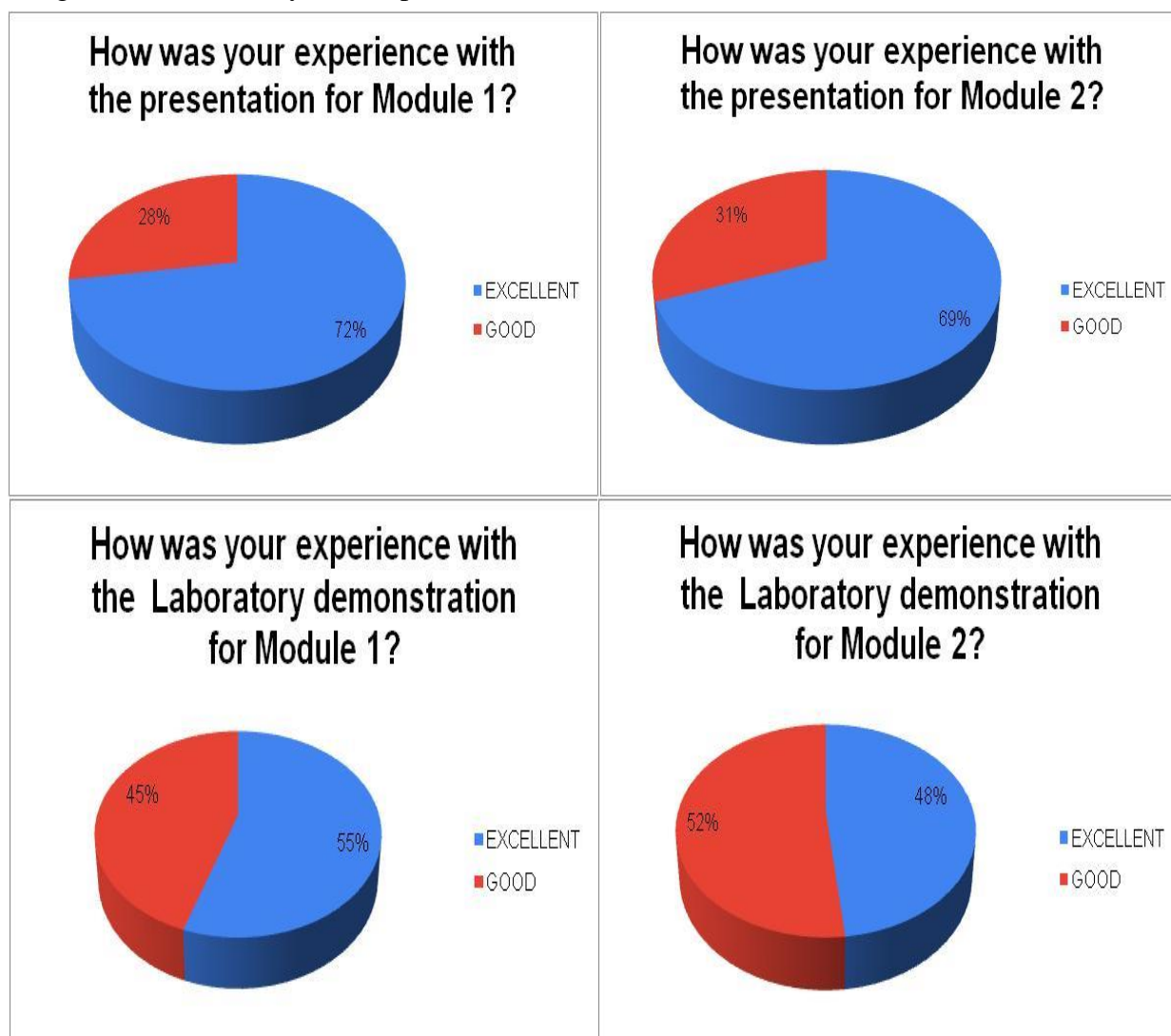
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9-15-2023 10:56:53	jaspermuansangOO@gmail.com	Jasper	Zoology	First	7005953049
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9-15-2023 11:55:34	okpeishangsiro@gmail.com	Okpeishang siro	Chemistry	First	6009439412
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9-15-2023 12:00:26	ribajanai2004@gmail.com	Ribajanai Syiemlieh	Chemistry	First	9362758612
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9-15-2023 13:41:58	omeyangblink@gmail.com	Omeyang taloh	Biochemistry	First	9863189457

Feedback from the Students

Out of the 75 students who participated for this workshop, responses were received through Google form. The analysis is depicted below for both the Module: [Click here for data](#)



Some of the **SUGGESTIONS/COMMENTS** for the overall experience of the students about the workshop are listed below:


FOR MODULE 1:

- a. “It was really fun to see the process of candle making”
- b. “It was a great opportunity, I'm really delighted to have been able to be a part of this. I have learned a lot and look forward to have more workshops in the future”
- c. “I was thrilled with the presentation as well as with the demonstration. I got to know how candles are made and how its production can become a source of business”
- d. “The Module 1 was very interesting and amazing. Its easy to remember and I really enjoyed this because we just need few raw materials for preparation and also we can mould them into any shape or size we want to get. I really appreciate because we can make a little business from this Candle making Module”

FOR MODULE 2:

- a. “The presentation as well the demonstration was excellent as well as enjoyable. Saponification is an amazing experiment in books but more in real life”
- b. “This was an excellent workshop with practical exercises and worthwhile information that I can use in both my professional and personal life. Great stuff!”
- c. “This Module one was good and satisfied. I got to learn that for preparation of soaps we need only few raw materials and we just need to follow the steps required in order to achieve the best product”
- d. “My overall all experience was good just wish we could've performed the experiment ourselves in your guidance”

Brochure



Two Days Workshop on "Chemistry Based Applications"

Organized by

Resource Person

Baristar Lyngdoh
Assistant Professor
Department of Chemistry
St. Edmund's College


Dr. Nadeichishis Khawborlang
Assistant Professor
Department of Chemistry
St. Edmund's College

The Department of Chemistry
in Collaboration With Advanced Biotechnology
Research Laboratory, Department of Biotechnology
St. Edmund's College, Shillong, India

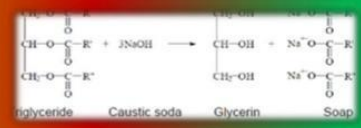
Instructions:

- Open to all students with Chemistry as elective paper.
- No Registration Fees.
- Registration to be done online via link provided below by 14th September, 2023 latest by 11:59 hrs.
- Certificates will be provided to all registered participants subject to submission of feedback/Quiz form after active participation in the workshop.

Module 1
Candle Making



Module 2
Soap Preparation




Organizing Secretary:
Dr. Khawborlang Nongsiej
chemsec18@gmail.com

Date : 15th – 16th September, 2020
Time : 1:00 p.m. onwards
Venue : AV Room 2 / Chemistry Lab

[Click here to Register](#)


Initiative under the Advanced Level Biotech Hub (Phase II) Grant, DBT, Govt. of India.

Demo Certificate



Department of Chemistry St. Edmund's College Shillong

Certificate of Participation



This is to certify that

of _____ has participated in the Workshop on "**Chemistry Based Applications**" held on the _____ in the Department of Chemistry. This programme is organised by Department of Chemistry and Advanced Biotechnology Research Laboratory, Department of Biotechnology, under the Advanced Level Biotech Hub (Phase II), funded by DBT, Govt. of India in Collaboration with IQAC, St. Edmund's College, Shillong.

DR. KHRAWBORLANG NONGSIEJ
Co-PI & Organizing Secretary

DR. SAMRAT ADHIKARI
Principal Investigator & HOD

SUMIT DEB
IQAC Coordinator & Co-PI

DR. BR. SIMON COELHO
Principal