



**Institution Innovation Council (IIC-SEC)**

**St. Edmund's College**

(Affiliated to North Eastern Hill University, Shillong)

Recognized by the University Grant Commission under 2 (f) and 12 (B) of UGC act 1956

Laitumkhrah, Shillong – 793003, Meghalaya, India

Website: <http://sec.edu.in>



## REPORT ON IMPACT LECTURE SERIES – 1

### SESSION: 1

**TITLE:** ANALYTICAL TOOLS APPLICATIONS & BUSINESS MODELS”

**DATE:** 20<sup>th</sup> June 2022

**TIME:** 13:00 hrs onwards

**DELIVERED BY:** Dr Deepika Singh

Principal Scientist

Quality Control & Instrumentation & BIONEST Incubator

IIIM – Jammu [CSIR]

Email: [dsingh@iiim.res.in](mailto:dsingh@iiim.res.in)

**MODE:** Online

**MEETING LINK:**

<https://us02web.zoom.us/j/87200872269?pwd=YzJESTRSS0t1WVFuMUVRINiRGxKQT09>

**TOTAL PARTICIPANTS:**

Students: 37

Faculty: 07

Others: 06

**KEY HIGHLIGHTS:**

The resource person highlighted the applicative role of instrumentation in Various business model which in turn would add a value addition to the product as Indian markets are highly product driven. The use of analytical tools like HPLC, GC-MS, LC-MS ICP-OES etc. will eventually lead to identification of potential novel compounds which in turn would help to formulate strategy in development of products and its deep understanding.

The resource person has emphasized the research on the dereplication for identification of novel metabolites from natural sources and their use for various product development. As Northeast India has rich biodiversity which makes it a potential region for exploring the vast natural resources for engineering into potent viable products.

Contact Details: (M) +91-9863023788



## Institution Innovation Council (IIC-SEC)

**St. Edmund's College**

(Affiliated to North Eastern Hill University, Shillong)

Recognized by the University Grant Commission under 2 (f) and 12 (B) of UGC act 1956)

Laitumkhrah, Shillong – 793003, Meghalaya, India



Website: <http://sec.edu.in>

### OUTCOME:

As the resource person is from the BIONEST Incubator Facility, a suitable proposal is expected from the students having a START UP idea and they have been offered to pursue a training in IIM, Jammu from Ideation stage to product delivery in collaboration with the IIC-SEC cell.

### FEEDBACK:

The participants appreciated the IIC-SEC cell for organizing such lectures as it was an eye opener for them.

**INSTITUTION INNOVATION COUNCIL**  
St. Edmund's College, Shillong

In Collaboration with  
**Ministry of Education's Innovation Cell, AICTE**

**ORGANISES**

**IMPACT LECTURE SERIES - I**  
Session I & II

Monday | 20 June | 2022  
13:30 - 17:00 hrs

**Target Participants**  
Students, Bioentrepreneurs & Faculty Members

**REGISTER HERE**

**Dr Saurabh Saran**  
Principal Scientist  
IIIM Technology Business Incubator  
IIIM - Jammu [CSIR]

**Dr Deepika Singh**  
Principal Scientist  
Quality Control & Instrumentation  
IIIM - Jammu [CSIR]

**ORGANISING COMMITTEE**  
Dr Sylvanus Lamare, Principal  
Prof M. Chakravarty, President IIC-SEC  
Prof Sumit Deb, Convener, IIC-SEC  
Dr Samrat Adhikari, Member IIC-SEC  
Ms Iarisa Dorphang, Member, IIC-SEC

**Kindly Note**

- All correspondence by email only
- Registration is Mandatory
- e certificates will be provided after filling the feedback form

Follow us on

[www.sec.edu.in](https://www.sec.edu.in)

Contact Details: (M) +91-9863023788



# Institution Innovation Council (IIC-SEC)

## St. Edmund's College

(Affiliated to North Eastern Hill University, Shillong)

Recognized by the University Grant Commission under 2 (f) and 12 (B) of UGC act 1956

Laitumkhrah, Shillong - 793003, Meghalaya, India

Website: <http://sec.edu.in>



Recording... LIVE Custom Live Streaming Service You are viewing Dr Deepika Singh's screen View Options

### Applications of Analytical techniques ...

- Investigation of Compounds present in a sample...
- To ascertain the nature of chemical constituents...
- What all are present & in How much Quantity?
- Relate Biological Activity with the Identified / Isolated Compound...
- Complete Knowledge in a Scientific way with Proofs & Validation...
- From Botanical Raw Material to Final Product...With Its Medicinal Use...
- Quality Product with Authenticity & Complete Reliability...

IIC SEC 20 June 2022 Confidential

Dr Deepika Singh St. Edmund's College...

Sylvanus La... Sylvanus Lamare SELVARAJ CHELLAP...

ABUJAM KU... ABUJAM KUNJESHO... baiakmenlan... baiakmenlang manners

Medaaihun L... Medaaihun Laloo Anushla singh Anushla singh

Alisha Matlang Alisha Matlang Baishali Deb Baishali Deb

DIPANKAR S... DIPANKAR SHOME Arnab Nath

Unmute Start Video Security Participants 21 Share Screen Polls/Quizzes Reactions Apps Whiteboards More End

Contact Details: (M) +91-9863023788



Institution Innovation Council (IIC-SEC)

St. Edmund's College

(Affiliated to North Eastern Hill University, Shillong)

Recognized by the University Grant Commission under 2 (f) and 12 (B) of UGC act 1956

Laitumkhrah, Shillong - 793003, Meghalaya, India

Website: <http://sec.edu.in>



Recording... You are viewing Dr Deepika Singh's screen View Options 40:01 View

### Applications of Analytical techniques ...

Challenges

**Adulteration**

Synthetic Cheaper Natural EOs

**Mislabeling**

Mixing Synthetic or Cheaper Natural in the name of Natural Ingredients.

Origin of Produce % Composition of constituents

**Economically Motivated Fraud**

PROFIT

IIC SEC 4th June 2022 Confidential

Dr Deepika Singh St. Edmund's College...

Sylvanus La... Sylvanus Lamare

baiakmenlan... baiakmenlang manners

ABUJAM KU... ABUJAM KUNJESHO...

Medaaihun L... Medaaihun Laloo

Alisha Matlang Alisha Matlang

DIPANKAR S... DIPANKAR SHOME

Arnab Nath Jethro Jarvis...

Jethro Jarvis Roy Jyr...

Mats872008... Mats87200872269

Gautam Deb Gautam Deb

Unmute Start Video Security Participants 20 Share Screen Polls/Quizzes Reactions Apps Whiteboards More End

Contact Details: (M) +91-9863023788