



**Institute of Engineering & Management,  
Kolkata**

**AICTE Model Based  
STUDENT INDUCTION PROGRAM  
(Academic Year 2022-2023)**

**Organized by  
Department  
of  
Basic Science & Humanities**

# Objectives of Induction Program

- ❖ New entrants go through years of strenuous preparation to get through the entrance barrier.
- ❖ Often they loose the connection from social life and recreational activities.
- ❖ On the other hand, engineering demands personality with 360 deg reflection of career expansion.

***“Induction Program is designed for the smooth transition of school going individual to responsible Indian citizen with the power of knowledge.”***

# Motive of Induction Program

This is articulated in the AICTE Model Curriculum 2018.

- ❖ Becoming familiar with the ethos and culture of the institution (based on institutional culture and practices)
- ❖ Set a healthy daily routine, create bonding in batch as well as between faculty members and students
- ❖ Exposure to a holistic vision of life, develop awareness, sensitivity and understanding of the  
Self-----Society-----Nation & Nature
- ❖ To facilitate them in creating new bonds with peers and seniors who accompany them through their college life and beyond.
- ❖ Overcoming weaknesses in some essential professional skills – only for those who need it (e.g. Mathematics, Language proficiency modules)

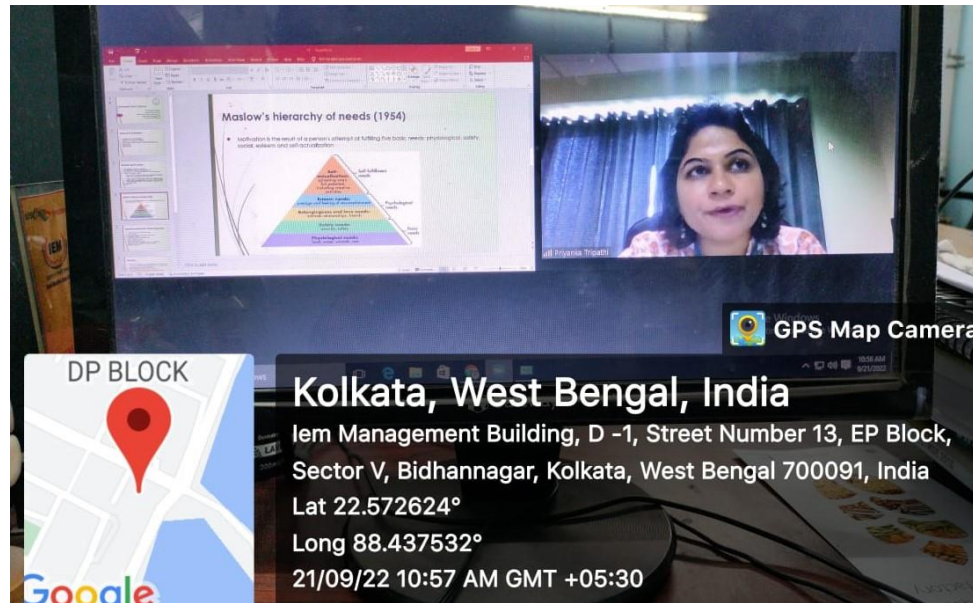
# Universal Approach

All the SIP activities (modules) are based on generic and universal principles. Local, regional, national and international case studies are taken so that students can relate them to their day to day life.

In this way:

- ❖ It will help in connecting the basic principles through specific examples.
- ❖ It will help the student to see and appreciate various cultures, to see the commonality amongst them
- ❖ It will help to evaluate any specific example, system or culture, with a view to fill the gaps, rather than to criticize or reject it.

# Universal Human Values



*Prof. Dr. Priyanka Triparthi of IIT Patna talked about various aspects of language. During the session, she highlighted on multiple theories like Maslow's Hierarchy of Needs Theory, Trait Theory to make the students understand the fundamental needs of learning languages.*

## **Broad Overview of Activities**

*The Student Induction Program(SIP) broadly consists of 9 categories of activities –*

- 1. Universal Human Values*
- 2. Physical Health & Related Activities*
- 3. Familiarization of Department/ Branch & Innovation*
- 4. Visit to a Local Area*
- 5. Lecture by Distinguished Scientists, Eminent Personalities.*
- 6. Language Proficiency Modules*
- 7. Literature*
- 8. Creative Practices*
- 9. Extra Curricular Activities, UBA, EBSB*

# Physical Health

## Objectives:

- ❖ **To remain healthy and fit.**
- ❖ **To develop bonding and relationship with the students.**
- ❖ **Involving health centric staff, sports coaches, introduction to faculty as well as student sports' teams etc.**

## Physical Health(Contd.)

Methodology:

- Health counseling
- Sports
- Yoga



Mr.Prince Rufus, Development Manager, Regional Officer, FIFA energized the newly inducted First year batch with his interesting lecture on World Football



# Glimpses on Sports and Games activities of the BSH Department



**Institute of Engineering & Management, Kolkata**

**B.Tech, First Year,2022**

**AICTE MODEL BASED INDUCTION PROGRAM (FIRST WEEK)**

Day	1ST & 2ND (9:00-11:20)	3RD (11.30-12.20)	(12:20-13:10)	4TH (13.10-14.00)	5TH (14.10-15.00)	6TH (15:10-16:00)	7Th (16:00-16:50)
(10th October)	<b>Inaugural Session of Induction Program</b> 1. Welcome Speech by Prof. Dr. Satyajit Chakrabarti, President, IEM Kolkata & Chancellor, UEM 2. Inaugural Speech by Prof. Dr. Satyajit Chakrabarti, Director IEM-Kolkata 3. Institutional Presentation and Departmental presentation by Prof. Dr. Sanghamitra Poddar, (Head, Department of Student Affairs & Alumni Relations ).IEM Kolkata 4. Vote of thanks by Prof. Dr. Arun Kr Bar, Principal, IEM, Kolkata		SIP Module 7: Literature/Literary Activities	LUNCH BREAK	SIP Module 3 : Familiarization of Department ECE	SIP Module 3 : Familiarization of Department CSE	Orientation Session  Sharing session
(11th October)	SIP Module 2 :Physical Health & Related Activities	SIP Module 5 :Lectures by eminent people	SIP Module 3 :Familiarization of Department IT	LUNCH BREAK	SIP Module 3 :Familiarization of Department ME	SIP Module 3 : Familiarization of Department EE	SIP Module 6 : Proficiency Module  Sharing session
(12th October)	SIP Module 5 :Lectures by eminent people		SIP Module 3: Familiarization of Department EEE	LUNCH BREAK	SIP Module 6: Proficiency Module	SIP Module 7: Literature/Literary Activities	SIP Module 1: Universal Human Values  Sharing session
(13th October)	SIP Module 6: Proficiency Module	SIP Module 7: Literature/Literary Activities	SIP Module 3: Visit to Physics LAB	LUNCH BREAK	SIP Module 3: Familiarization of Department IOTCSBT	SIP Module 2 :Physical Health & Related Activities	SIP Module 1: Universal Human Values  SIP Module 5: Lectures by eminent people
(14th October)	SIP Module 5: Lectures by eminent people		SIP Module 6: Proficiency Module	LUNCH BREAK	SIP Module 7: Literature/Literary Activities	SIP Module 9 : Curricular Activities	SIP Module 2 :Physical Health & Related Activities  SIP Module 5: Lectures by eminent people
(15th October)	SIP Module 8: Creative Practices			LUNCH BREAK	SIP Module 8: Creative Practices  Sharing session		
(16th October)	SIP Module 4: Visit to Local Areas						

**Institute of Engineering & Management, Kolkata**

**B.Tech, First Year,2022**

**AICTE MODEL BASED INDUCTION PROGRAM (Second WEEK)**

Day	1ST (9:30-10.30)	2nd (10.30-11.30)	3RD (11.30-12.20)	(12:20-13:10)	4TH (13.10-14.00)	5TH (14.10-15.00)	6TH (15:10-16:00)	7Th (16:00-16:50)
(17th October)	SIP Module 1: Universal Human Values	SIP Module 6 : Proficiency Module	SIP Module 7: Literature/Literary Activities	LUNCH BREAK	SIP Module 3 : Familiarization of Department IOT	SIP Module 3: Visit to Computer LAB	SIP Module 3: Visit to Library	SIP Module 5: Lectures by eminent people
(18th October)	SIP Module 2 :Physical Health & Related Activities	SIP Module 5 :Lectures by eminent people	SIP Module 3 :Familiarization of Department CSBS	LUNCH BREAK	SIP Module 3 :Familiarization of Department AIML	SIP Module 3: Visit to Language LAB	SIP Module 6 : Proficiency Module	SIP Module 5: Lectures by eminent people
(19th October)	SIP Module 5 :Lectures by eminent people	SIP Module 5 :Lectures by eminent people	SIP Module 3: Familiarization of Department AI	LUNCH BREAK	SIP Module 6: Proficiency Module	SIP Module 7: Literature/Literary Activities	SIP Module 3: Visit to Chemistry LAB	SIP Module 5: Lectures by eminent people
(20th October)	SIP Module 5 :Lectures by eminent people	SIP Module 5 :Lectures by eminent people	SIP Module 3: Visit to Basic Electronics LAB	LUNCH BREAK	SIP Module 3: Visit to Basic Electrical LAB	SIP Module 2 :Physical Health & Related Activities	General Awareness of Anti -Ragging and Introduction to disciplinary committee and Internal Compliance	SIP Module 5: Lectures by eminent people
21st October)	SIP Module 5 :Lectures by eminent people	SIP Module 5: Lectures by eminent people	SIP Module 6: Proficiency Module	LUNCH BREAK	SIP Module 7: Literature/Literary Activities	SIP Module 9 : Curricular Activities	SIP Module 1 :Physical Health & Related Activities	SIP Module 5: Lectures by eminent people
(22nd October)	SIP Module 1 : Universal Human Values			LUNCH	SIP Module 2 :Physical Health & Related Activities			
(23rd October)	SIP Module 4: Visit to Local Areas							

**Institute of Engineering & Management, Kolkata**

**B.Tech, First Year,2022**

**AICTE MODEL BASED INDUCTION PROGRAM (Third WEEK)**

Day	1ST (9:30-10.30)	2nd (10.30-11.30)	3RD (11.30-12.20)	(12:20-13:10)	4TH (13.10-14.00)	5TH (14.10-15.00)	6TH (15:10-16:00)	7Th (16:00-16:50)
(24th October)	SIP Module 7: Literature/Literary Activities	SIP Module 5 :Lectures by eminent people	SIP Module 7: Literature/Literary Activities	LUNCH BREAK	SIP Module 3: Visit to Workshop	SIP Module 6: Proficiency Module	SIP Module 1: Universal Human Values	Sharing session
(26th October)	SIP Module 2 :Physical Health & Related Activities	SIP Module 5 :Lectures by eminent people	SIP Module 3: Visit to Engineering Drawing LAB	LUNCH BREAK	SIP Module 3 :Familiarization of Department Physics(Theory)	SIP Module 3: Visit to 3DPrinting LAB	SIP Module 6 : Proficiency Module	SIP Module 5: Lectures by eminent people
(27th October)	SIP Module 1: Universal Human Values	Introduction to Clubs,Chapters and Activities of BSH Department	SIP Module 3: Visit to Virtual Reality LAB	LUNCH BREAK	SIP Module 6: Proficiency Module	SIP Module 7: Literature/Literary Activities	SIP Module 2 :Physical Health & Related Activities	Sharing session
(28th October)	SIP Module 5: Lectures by eminent people	SIP Module 7: Literature/Literary Activities	SIP Module 6: Proficiency Module	LUNCH BREAK	Report writing of Induction Program			Sharing session
29th October)	SIP Module 9 : Curricular Activities			LUNCH BREAK	SIP Module 8 : Creative Practice			
(30th October)	SIP Module 9 : Curricular Activities			LUNCH BREAK	Report submission and Live interaction with students			
(31st October)	Cultural Program			LUNCH BREAK	Celebration			

## **Familiarization to different Departments offered at our institute**

- **Department of Computer Science & Engineering (CSE) core and allied departments like AIML, CSBS, IOT, CSBS, IOTCSBT, AI**
- **Department of Electronics & Communication Engineering (ECE)**
- **Department of Information Technology (IT)**
- **Department of Electrical Engineering (EE)**
- **Department of Electrical and Electronics Engineering (EEE)**
- **Department of Mechanical Engineering (ME)**

# Visits to different facilities



## Library Visit

Library at Management House contains different text as well as reference books of science and humanities along with books for competitive examinations. Research papers of different journal and conference proceedings are also available here. There is an ICT equipped reading area for the students and faculties.

## Language Lab visit

The Language Laboratory has audio-visual facilities used as an aid in modern language teaching. The students are given guidance to face the interviews with special training on voice modulation and personality development.



# Overview of Laboratories



## **Chemistry Lab visit**

Spacious and well equipped laboratory to cater not only B. Tech curriculum but also, high level research using UV-Visible spectrophotometer and other instruments.



## **Physics Lab visit**

Both the Physics Lab-I (for 1<sup>st</sup> Year) and Physics – II (for 2<sup>nd</sup> Year) are well equipped and well maintained. Physics faculties along with trained professionals also provides basic training on observatory.

# Overview of Laboratories contd.



## Computer Lab visit

Spacious Computer Laboratory having student computer ratio 1:1.

Specification-

## Basic Electrical & Electronics Lab visit

This laboratory not only provides hand on training on basic electrical machines, circuits etc but also, opens up for innovative research.





# Overview of Laboratories contd.



## **Mechanical Workshop/ Manufacturing Practices/Design & Computer graphics lab visit**

Three well equipped Mechanical workshops are available at the institute with all kinds of modern machines and instruments used for drilling, casting, welding etc.

Well equipped 3D designing and printing lab is also there.

## Visits to local Areas

To relate to the social environment of the educational institution as well as the area in which it is situated, interaction with the local people is a must to get an idea about the place, history, politics...

- Understand how they manage their life- production, house, relationship, education transfer of skills
- Monuments of the city, near-by historic places should be visited and these should be properly explained by a guide/mentor.
- Understand the real-time problems further that will help to channelize the innovative thinking and demand a life-long solution.

**Virtual Tour Link: <https://www.youtube.com>**

## **Lecture by Nobel Laureates, World famous scientists, Eminent Personalities: Interactive Talks**

### **Objectives:**

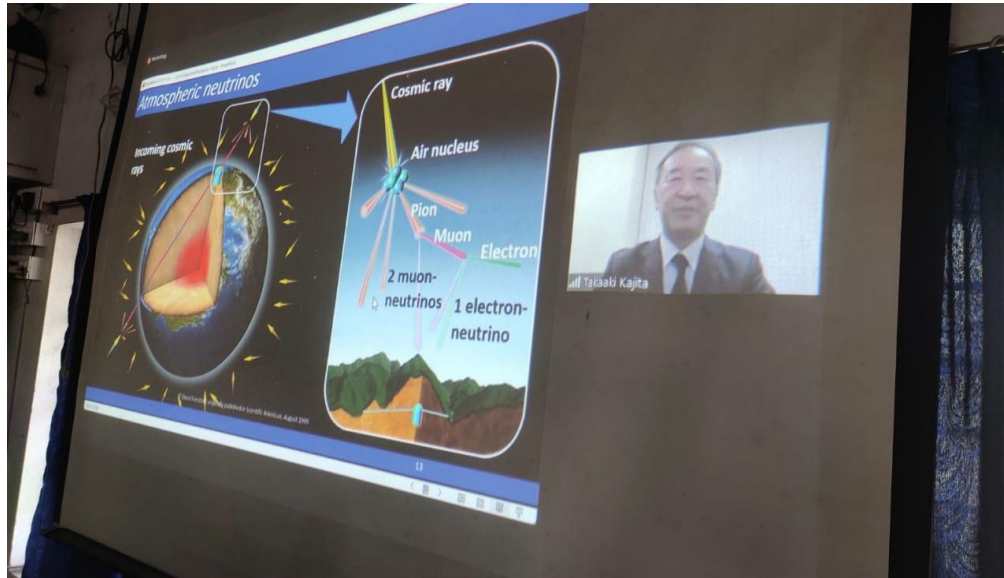
- ❖ The sessions were aimed to motivate the young minds in various fields of Academics, Career Planning, Skill Development, Leadership and Managerial Skills etc. Thus inducting a holistic learning approach.
- ❖ Recognition of people contributing towards our society beyond academics like art, culture, philosophy and its practice etc.
- ❖ Entrepreneurs and self-employed people coming from organized sectors with their ideology of self sustenance.

## Lecture by Nobel Laureate, Prof. Konstantin Novoselov



**Nobel laureate Prof. Konstantin Novoselov, was awarded Nobel prize in 2010 for his revolutionary discovery “Graphene”.**

## Lecture by Nobel Laureate , Prof. Takaaki Kajita



Nobel laureate Prof. Takaaki Kajita, Professor, University of Tokyo, Japan. Prof. Takaaki Kajita is a Japanese physicist who was awarded the 2015 Nobel Prize in Physics for discovering the oscillations of neutrinos from one flavour to another, which proved that those subatomic particles have mass.

# Distinguished Foreign Lecture by Prof. Philip Kotler, known as the "Father of Modern Marketing,"

**IEM**  
INSTITUTE OF ENGINEERING & MANAGEMENT  
Great Education. Good Jobs

**SMART**


**UEM**  
UNIVERSITY OF ENGINEERING & MANAGEMENT  
Great Education. Good Jobs

## The Father of Modern Marketing

Offering a Session on

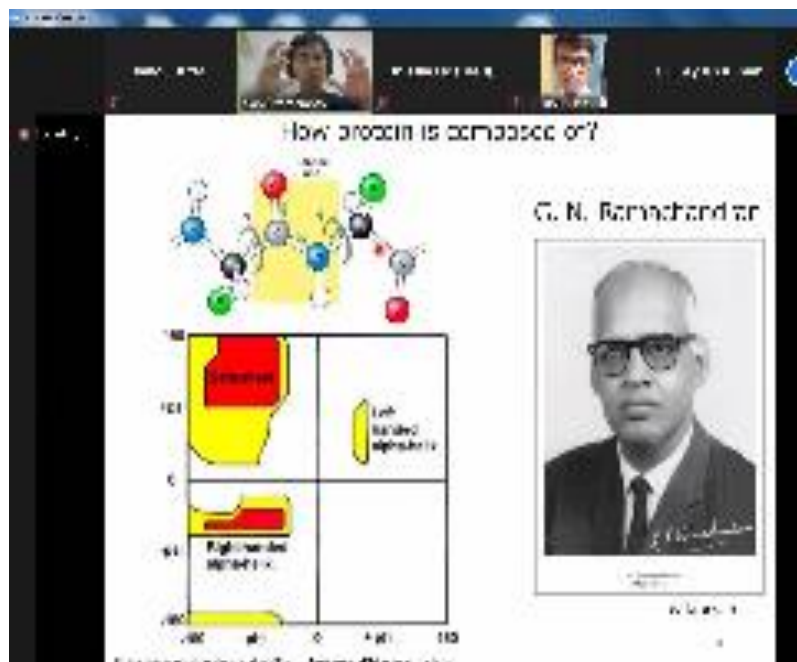
### “The Future of Marketing”

**19<sup>th</sup> October, 2022**  
IST -4:00 PM



Professor **PHILIP KOTLER**  
S.C. Johnson & Son Distinguished Professor  
Kellogg School of Management

## Lecture by Eminent Persons: Worldview Sessions and Interactive Talks(Cont.)



How protein is decomposed on?

G. N. Ramachandran

The slide displays a 3D ball-and-stick model of a protein structure on the left. On the right, there is a 2D diagram of a protein backbone with highlighted regions: a red region labeled 'Rigid' and a yellow region labeled 'Semi-rigid'. Below the diagram, there is a small inset showing a 'Left-handed alpha-helix'.

**Dr. Naoki Yamamoto from Jichi Medical University, Japan delivered his talk**

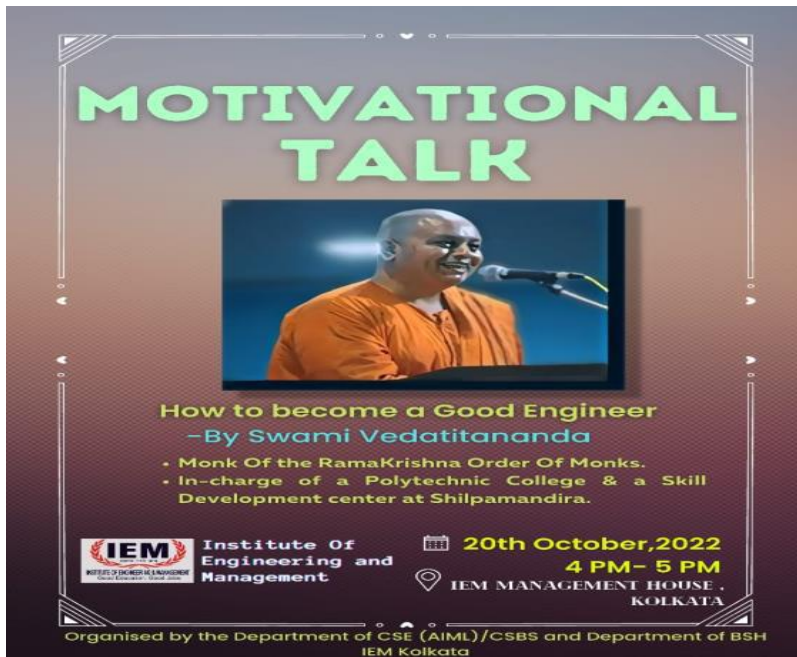


Antoine-Laurent de Lavoisier  
(1743-1794)  
Father of modern chemistry


The slide features a portrait of Antoine-Laurent de Lavoisier on the right. On the left, there is text describing his contributions to chemistry, including the law of conservation of mass and the discovery of oxygen. The text is partially obscured by a watermark.

**Prof. Arnab Halder, Head, Dept. Of Chemistry, Presidency University delivered a talk on "Journey of Chemistry with time: Highlight on few Historical Events"**

Swami Vedatitananda of Belur Shilpamandir came and delivered a motivational and inspirational talk for the newly inducted students at Management House auditorium.



**MOTIVATIONAL TALK**



**How to become a Good Engineer**  
-By Swami Vedatitananda

- Monk Of the RamaKrishna Order Of Monks.
- In-charge of a Polytechnic College & a Skill Development center at Shilpamandira.

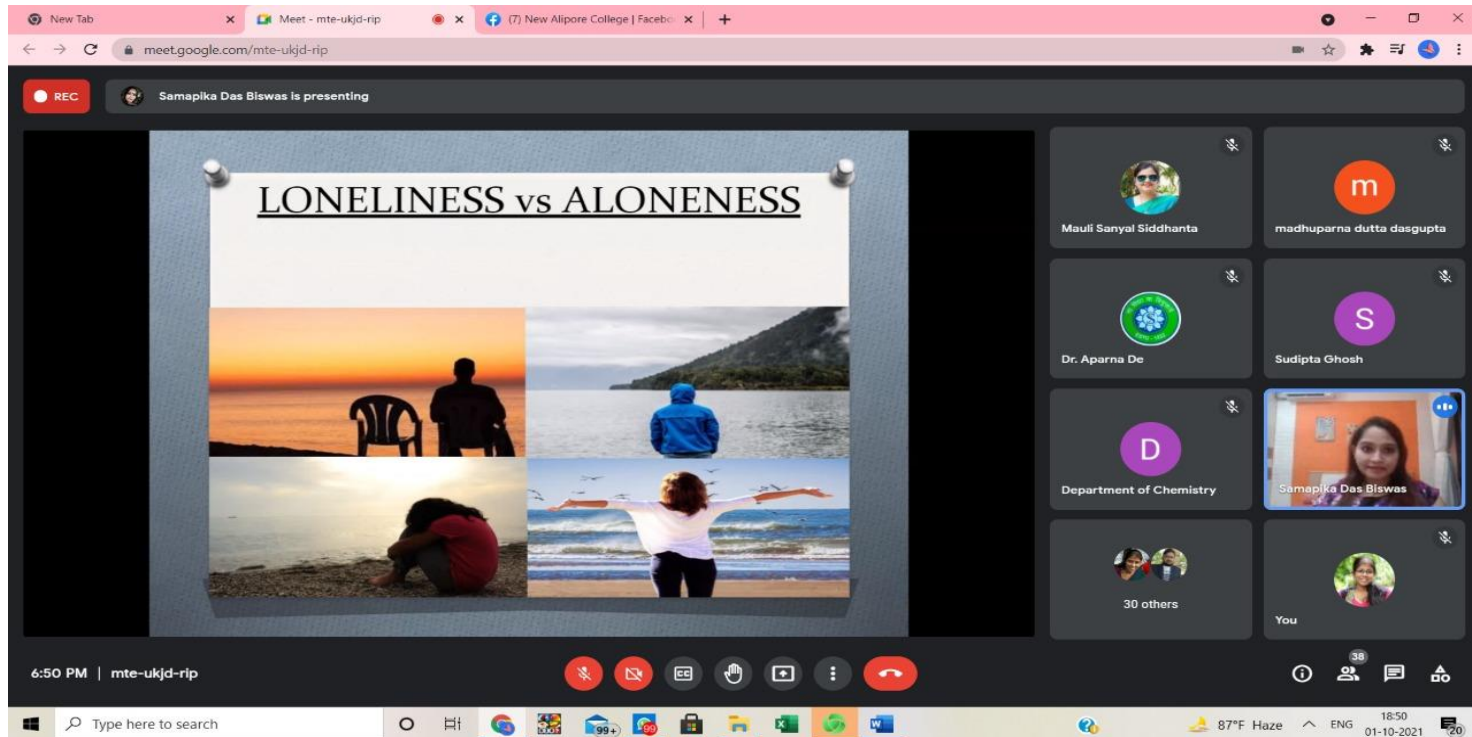
**IEM** Institute Of Engineering and Management  
20th October, 2022  
4 PM - 5 PM  
IEM MANAGEMENT HOUSE . KOLKATA

Organised by the Department of CSE (AIML)/CSBS and Department of BSH  
IEM Kolkata





# Interactive Sessions by our faculty



Dr. Samapika Das Biswas (RCI registered Psychologist) held a Counselling & Students' Mentoring session on an interesting topic "***LONELINESS vs ALONENESS***".

## Interactive Sessions by our faculty (contd.)



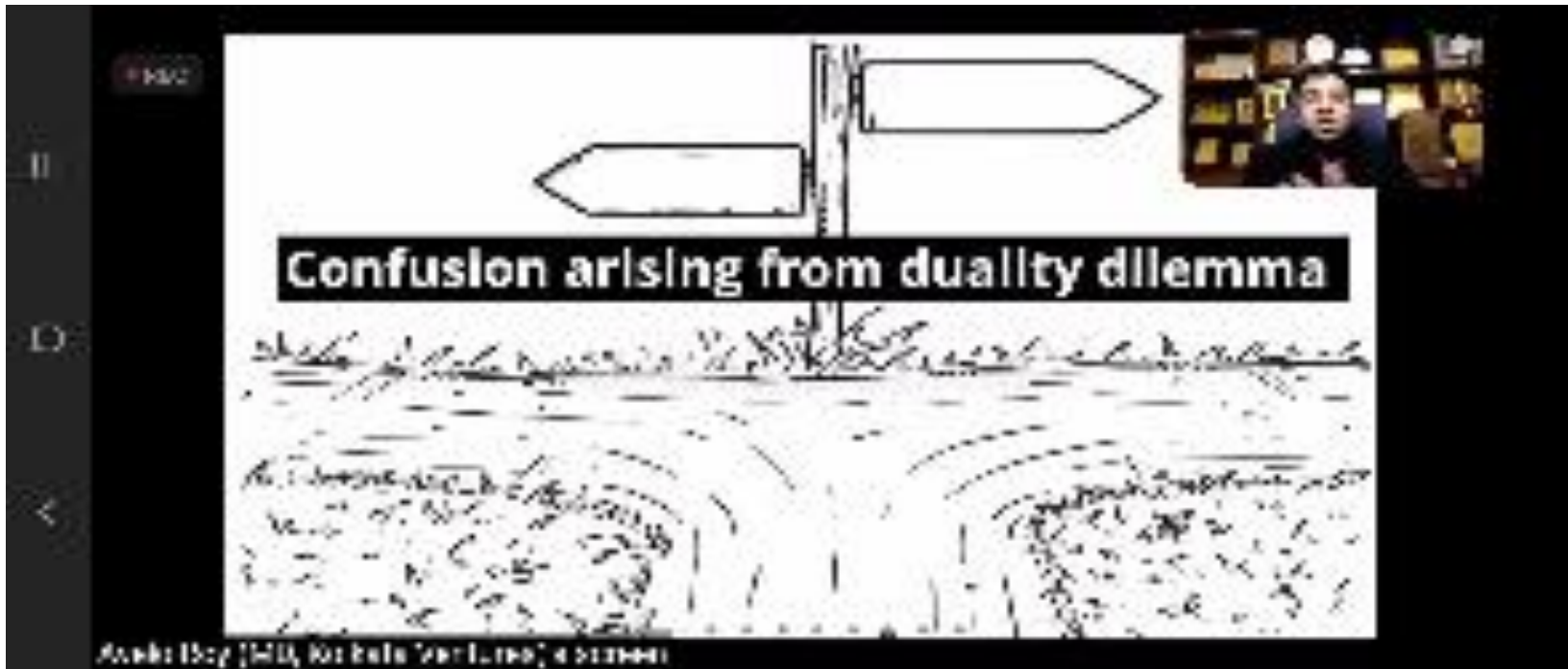
**Dr. Sanghamitra Poddar delivered a lecture on “Anti ragging Committee”**

## **Interactive Session by our Honourable Principal (contd.)**



**Dr. Arun Kumar Bar (Principal, Institute of Engineering & Management, Kolkata) delivered his talk on “Internal compliance Committee”.**

## Lecture by Eminent Persons: Worldview Sessions and Interactive Talks(Contd.)



Mr. Avelo Roy MD, Kolkata Ventures took one session in Induction program.

# Language Proficiency

## *Objectives*

To make student proficient in interpersonal communication and expression.

To create awareness about linguistic.

## *Interpersonal communication*

- Proficiency in English

## *Linguistic and NLP*

- Paninian Grammar
- Computation Linguistics

## Language Proficiency(Contd.)



**Dr. Binu James Mathew, College of Banking and Finance, Oman gave his engaging Talk on the “Maladies of Online Teaching Learning Process and Strategies to Shift to a Flipped Classroom Model”**

# Literary Activities

## Objectives :

- ❖ To develop the clarity of humanistic culture and its expression through literature
- ❖ Read two pieces of local, regional, national or international literature to help them in understanding traditional and contemporary values and thought processes.

# Literary Activities (Contd.)



An interactive and motivational session conducted by IEM Alumnus Mr. Alomoy Banerjee during the Student Induction Program



IEM Alumnus Mr. Sandipan Snigdha Das delivered during the Student Induction Program



# Creative Practices

## **Objective:**

- To develop the clarity of humanistic culture and its creative expression through art.
- To introduce art and philosophy behind it so that they can appreciate and enjoy it.
- To learn one of these activities depending upon their interest.
- To develop design thinking.
- To aware students about the technology issues and opportunities in creative practices.

## Extra-Curricular Activities in College/Informal Interaction with Student

Objective:

- Some clubs and hobby group have established for each of the above categories, so that students may pursue it even after the induction



# **Opportunities of Excelling Beyond Curriculum**

**Conferences**

**Olympiads**

**Social  
Activities**

**Publication in  
Journals**

**Cultural  
Extravaganza**

# Opportunities of Excelling Beyond Curriculum

**Club/Student Chapter**

**Patent filling**

**Workshops**

**Research**

**Seminar**

# Opportunities of Excelling Beyond Curriculum

**Study Abroad Program**

**Internship**

**Start Up**

**Projects**

**Tech Events  
(Innovacion/Maker  
Faire)**

# Opportunities of Excelling Beyond Curriculum

**Foreign  
Collaboration**

**NSS Activities**

**App Based  
Learning**

**Book  
publications**

**Foreign Lecture  
Series**

# Student chapter & club activities



December 7, 2019

Dear Dr. Kayal Ganguly, Mr. Arnab Bose,

Congratulations to you and your chapter for your accomplishments during the 2018-2019 academic year! We are consistently amazed each year at how much time, energy, and effort everyone devotes to their departments and local communities. This year the Institute of Engineering & Management, Kolkata, India chapter has earned the designation of a **Society of Physics Students Notable Chapter!**

You and your chapter should be proud! A certificate suitable for display is enclosed and we hope that you do just that - show it off! Your accomplishment will be listed on the SPS website and in the winter issue of *The SPS Observer*. You have earned this moment of recognition. Your combined efforts supported the department, helped further student development, and strengthened the community.

As part of the chapter report review process, members of the SPS National Council provided feedback and suggested ways your chapter might increase student engagement or enhance programs to move you to the "outstanding" category. Your chapter's reviewer comments are included on the back.

For future reports, strive to find new ways to fully represent your chapter and department. Share your unique story and record your achievements as a starting point for future students! Check out what other chapters are doing at [www.spsnational.org/resources/chapters](http://www.spsnational.org/resources/chapters). We also recommend you contact your elected zone officials, Dan Williams at [dwilliams@csutreno.edu](mailto:dwilliams@csutreno.edu) and Cynthia O'Brien at [cperez39@mail.cuicw.edu](mailto:cperez39@mail.cuicw.edu) as resources.

Thank you for the time and energy you devote. I know the school year is very full bar, but from personal experience, I can attest that when an SPS chapter is thriving and integrated into the department environment, it is often a sign of an advisor who is committed and actively engaged with the students. To have your group named as a **Notable Chapter** is a testament to your leadership skills and your ability to foster leadership among your students.

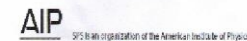
Please do not hesitate to contact the National Office if you have questions, or if we can be of any assistance in helping your chapter continue to flourish. Your chapter makes a difference in the lives of students.

Sincerely,

A handwritten signature in blue ink.

David R. Conrad, Ph.D.  
Director, Society of Physics Students & Sigma Pi Sigma  
[conrad@sjp.org](mailto:conrad@sjp.org)  
(301) 209-3111

CC: Prof. Prabir Kumar Das Ms. Sanhita Koley Ms. Susinika Basu Mr. Aniket Mallick Mr. Suvarip Ghosh



# *Glimpses of several Cultural Programs organized by students and faculty members of the BSH Department in Induction Program*





*Thank You*