




# INSTITUTION'S INNOVATION COUNCIL

2024

# Introductions to IIC

- Innovation is an important part of humanity and has an immeasurable necessity in every single educational institution. The task of evolving students and molding them into fine engineers and innovators who go on to dominate various fields filled with other talented inventors and entrepreneurs is amongst the most crucial ventures of a college. In the upcoming tech dominant era of engineering, a council which leads the institution in providing depth of knowledge and exposure to latest advancements in technology and topics of vital importance to the students walking this path, is necessary.
- Ministry of Education (M.O.E), Govt. of India has established 'MoE's Innovation Cell (MIC)' to systematically foster the culture of Innovation among all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years. MIC has envisioned encouraging creation of 'Institution's Innovation Council (IICs) across selected HEIs. A network of IICs has been established to promote innovation and entrepreneurship in the Institution through multitudinous modes leading to an innovation promotion ecosystem in the campuses.
- Acknowledging this belief, Institute's Innovation Council (IIC) has been established in GTBIT, whose sole aim is to instill an innovative and pioneer mindset in students and enable growth by inhibition of ability to work upon it, IIC. The ideas, the brilliant underlying and unrealized discoveries, the attempts to reach the realms of innovations beyond our grasps are shut down due to the most mundane problem of improper nourishment and useless sense of conformity. It is at this area of weakness, where IIC aims to strike at and develop it into strength.



Major  
Focus at  
IIC

**01**

**To create a vibrant local innovation ecosystem.**

**02**

**Start-up supporting mechanism in HEIs.**

**03**

**Prepare institute for ATAL- Ranking of institutions on innovation achievements framework.**

**04**

**Establish function ecosystem for scouting ideas and pre-incubation of ideas.**



## Functions of IIC

**01**

**To conduct various Innovation, IPR and entrepreneurship-related activities prescribed by MIC in time bound fashion.**

**02**

**Identify and reward innovations and share success stories.**

**03**

**Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.**

**04**

**Establish function ecosystem for scouting ideas and pre-incubation of ideas.**



# Objectives of IIC

**01**

**Fostering a culture of  
innovation:**

**02**

**Promote Interdisciplinary  
Collaboration**

**03**

**Provide Mentorship and  
Guidance**

**04**

**Conduct workshops, events  
and seminars**

## Event 1.

A five-day long program was held from 12th to 16th of February. This program had numerous sessions, workshops and seminars hosted by professionals with the primary objective of encouraging development in faculties. There were over 40 participants and 8 professionals who oversaw the conducting of the event.

The event included various activities like developing emotional intelligence, effective communication, encouraging dynamic discussion, stress reduction, fostering teamwork, problem solving and many such important parts of being an educator. The workshop was organized by NITTTR CHANDIGARH in collaboration with Department of IT and IIC@GTBIT and lasted for five days.

# Faculty Development Program

12/02/2024 - 16/2/2024



The poster features a blue background with a light blue gradient on the left. At the top left is the logo for the Institution's Innovation Council (IIC), Ministry of HRD, Government of India. At the top right is the logo of GGS Indraprastha University, Delhi. The main title 'FACULTY DEVELOPMENT PROGRAM' is written in large, bold, white and yellow letters. Below the title, it says 'ON' in yellow, followed by a quote: 'Short Term Course On Developing Soft Skill'. Below the quote, it says 'In Association With' in yellow, followed by 'IIC@GTBIT IT Department & NITTTR, CHANDIGARH' in white. At the bottom left, it lists 'Faculty Coordinators' as DR. Amandeep Kaur and DR. Savneet kaur. At the bottom right, it lists 'STUDENT COORDINATOR' as GAURAV SHARMA and CHAITANYA BEHL.

**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of HRD, Government of India)

**GGS INDRAPRASTHA UNIVERSITY**  
DELHI

**FACULTY DEVELOPMENT PROGRAM**

**ON**

“Short Term Course  
On Developing Soft Skill”

**In Association With**  
**IIC@GTBIT**  
**IT Department**  
**&**  
**NITTTR, CHANDIGARH**

**Faculty Coordinators**  
DR. Amandeep Kaur  
DR. Savneet kaur

**STUDENT COORDINATOR**  
GAURAV SHARMA  
CHAITANYA BEHL

# GLIMPSES OF THE EVENT



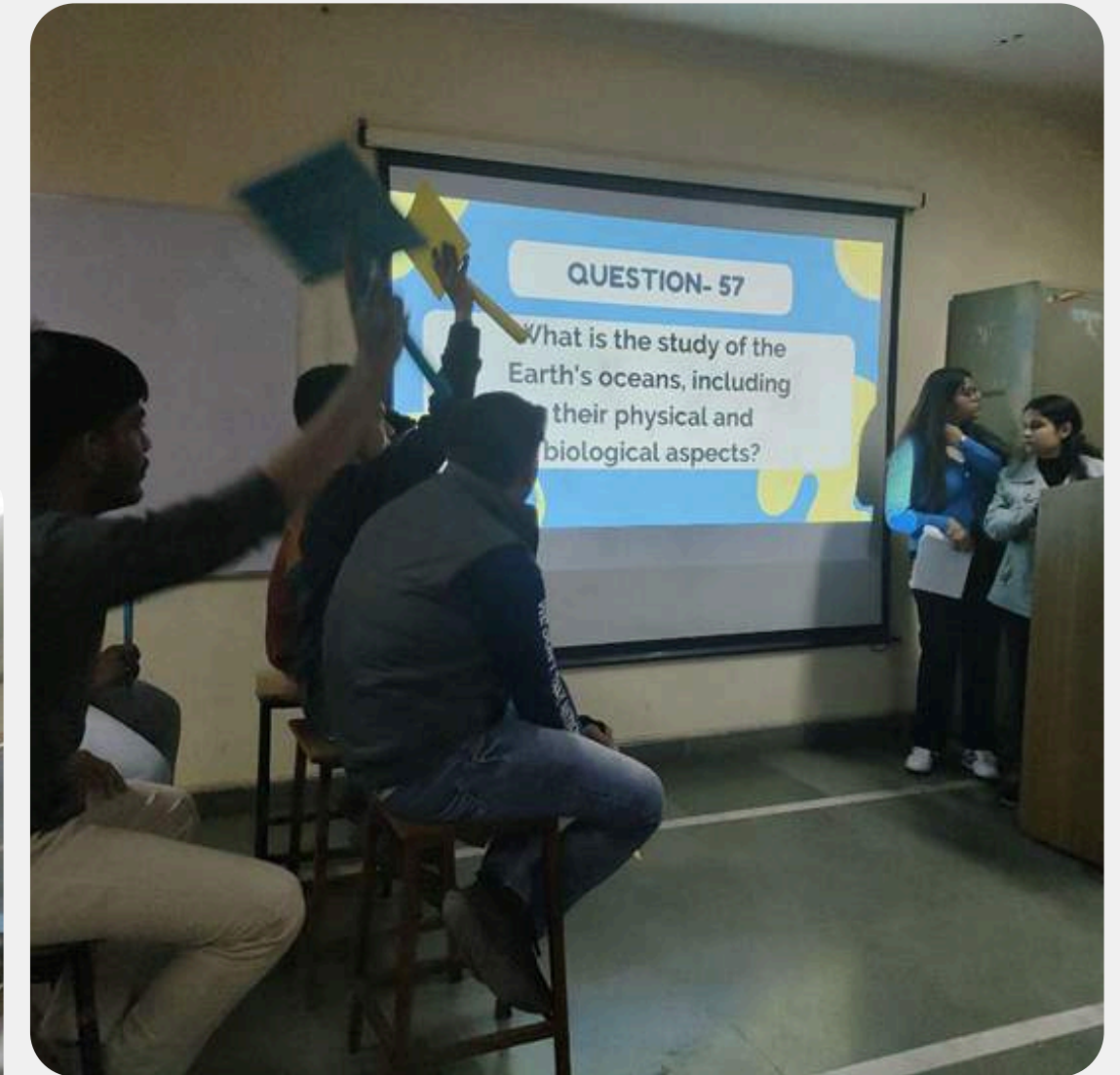
**Links:**

[LinkedIn.com](https://www.linkedin.com)





# GLIMPSES OF THE EVENT



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## Event 3

An event was conducted on 24th April 2024 regarding the importance of Electromagnetic Field (EMF). A lecture was conducted by Dr. Mukesh Kumar Khandelwal, Associate Professor at Delhi University South Campus, which focused on a variety of topics on the role of EMF in electronic devices and the theoretical concepts involved in the same. This event was focused on spreading awareness regarding the theory behind the physical phenomenon which improves our quality of life exponentially.

Dr. Mukesh discussed about various types of devices in various fields like Wireless Communication which included Cell Phones in which EMFs enable the transmission of signals between cell towers and mobile phones, facilitating voice calls, text messaging, and internet access and Wi-Fi which use EMFs to provide wireless internet connectivity to devices such as laptops, tablets, and smartphones. He further discussed about medicinal applications which include MRI Scanners that use strong magnetic fields and radio waves to produce detailed images of the body's internal structures, crucial for diagnosis and treatment planning and Electrotherapy Devices that include devices like TENS (Transcutaneous Electrical Nerve Stimulation) units use EMFs to provide pain relief by stimulating nerves.

# Lecture on “Role of EMF” in our Lives

06/05/2024



# GLIMPSE OF THE EVENT



## Event 4.

Startup Mahakumbh was a first-of-its-kind mega event in terms of magnitude, scale, and impact which was held on March 18-20, 2024, at the Bharat Mandapam, Pragati Maidan, New Delhi. This event was led by ASSOCHAM along with industry stakeholders such as NASSCOM, IVCA, TIE Global, Bootstrap Foundation and it was well-supported by government organizations like DPIIT, Invest India, Startup India and National Startup Advisory Council, Ministry of Education and more.

The event was a sounding success, and we as an institution are grateful to have been a part of this event. Our students were able to broaden their technical and innovative horizons and build valuable connections to major league companies and fellow IIC members. We are also thankful to the competent and professional organizers of the event which allowed this event to fulfill its duty as a bridge between upcoming innovators and similarly brilliant minds of our nation.

# Startup Track for Startup Mahakumbh

18/03/24

©



# GLIMPSE OF THE EVENT



## Event 5.

IIC (Institute's Innovation Council) under the Ministry of HRD conducted a two-day workshop on 25th and 26th April 2024. The event was conducted on Zoom, a video conferencing software from 2 PM onwards. The event contained lectures regarding the use of Latex as software for professional scientific documentation which was undertaken by Dr. Meher Chand, Prof at Baba Farid College, Bathinda-151001.

The event was a success, with over 50 students attending the lectures from the AI&ML branch. The enthusiasm for learning about Latex documentation is a testament to the inspirational mindset possessed by the students from the institution. We would like to extend our sincere gratitude to Dr. Meher Chand, who expressed his knowledge with unparalleled professionalism and expertise, with sharp and concise instructions and blatantly apparent knowledge regarding this topic, for attending this event and we look forward to more opportunities to collaborate with him to share more of his profound knowledge with us.

# LATEX WORKSHOP

06/05/2024



The poster is for a LaTeX workshop. It features a dark blue background with a circular portrait of Dr. Mehar Chand on the left. To the right of the portrait is a list of his credentials. The main title 'WORKSHOP ON LATEX' is in large, light blue letters. Below the title, it says 'BY-DR. MEHAR CHAND'. At the bottom, there are two purple boxes containing the venue and time. The background also includes a stylized robot and a planet with a ring.

**INSTITUTION'S INNOVATION COUNCIL**

**I.I.C. @ GTBIT  
&  
DEPARTMENT OF APPLIED SCIENCE**

**PRESENTS**

**WORKSHOP  
ON  
LATEX**

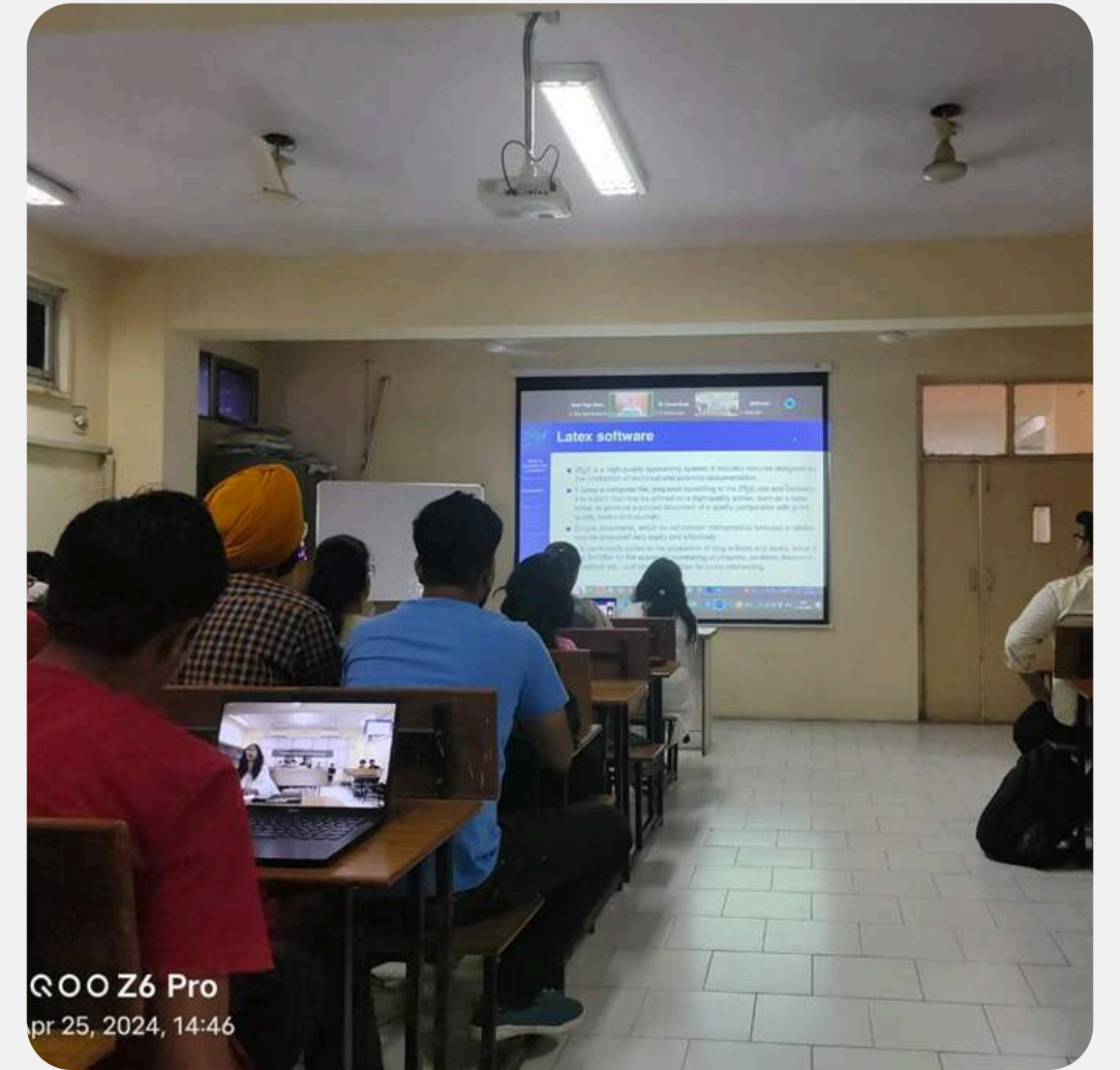
**BY-DR. MEHAR CHAND**

**DR. MEHAR CHAND**  
-Assistant Professor at Dept. Of Mathematics  
Baba Farid College  
-70+ Research papers published  
-Member Of Board Post Graduate Studies in Mathematics  
-Citation score 900+  
-15+ Years of Teaching Experience

**VENUE**  
Lab-18, Lab Block

**TIME**  
25 & 26 April  
2:30-3:30Pm

# GLIMPSES OF THE EVENT



**Links:**  
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## Event 6.

IIC (Institution Innovation Council, Under the Ministry of HRD), in collaboration with Nexus (under the Department of AIML), a fellow society belonging to our institution conducted an event on May 6th, 2024, called Entrepreneurship Seminar under the Impact Lecture Series. This event featured two lectures on the topic of Entrepreneurship and the diverse procedure for the creation of a startup and its various challenges regarding growth and profitability.

Our first speaker was Mrs. Anchal Saini, CEO of Flyrobe. Flyrobe is a startup which was established in 2019-2020. The focus of the startup is on the topic of renting clothing items while focusing on a customer-to-customer model. Flyrobe was created to combat the apparent wastage of expensive clothing which lay in the closet unused after an occasion. Their main idea is putting these expensive clothing which receive seldom use to other customers who need the product for a special occasion without investing in it themselves. Flyrobe is also a green company certified by the Government and received positive feedback in their pitch in Shark Tank.

# Entrepreneurship Seminar-Impact Lecture Series

Our second speaker was Ms. Nidhi, CEO of Nema AI. Nema AI is a startup that was established in 2022. The focus of the startup is on the topic of using LLM (Large Language Model) to perceive and interpret Brain Wave patterns which was recorded by an EEG(Electroencephalogram) which is a test that measures and records the electrical activity in the brain. It involves placing small electrodes on the scalp to detect the electrical impulses produced by the brain's neurons. The brain wave patterns are easily discernible using AI, the resultant EEG Smart scan offers insights into memory retention, thinking abilities, and individual learning styles, providing in-depth understanding of emotional senses.

It was an honor for us at IIC to have been able to provide a platform for students from our institution to get knowledge and inspiration to embark on their own startup journeys from the very best the Entrepreneur industry has to offer. We present our sincere gratitude to Mrs. Anchal Saini and Ms. Nidhi for spreading their experience and wisdom among our students and motivating them to think positively and confidently regarding their own budding ideas for this industry. We hope to work with them again soon. We would also like to extend our appreciation to Nexus, our fellow society, for their excellent support in conducting and making this event a sounding success, and we would like to hold many future collaborative events along with them



06/05/2024



# GLIMPSES OF THE EVENT



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## Event 7.

IIC (Institution's Innovation Council under Ministry of HRD) in collaboration with the Department of Applied Sciences conducted an online session based on a multi-modality of data, word embedding and deep graph learning on 11th and 12th May 2024. The speaker for this event was Saloni Verma, a Systems Engineer at Boehringer Ingelheim.

The first topic she discussed was on Multi-Modality of Data. Multimodality of data refers to the existence of multiple types or forms of data within a dataset or system. It describes the presence of various data types, such as text, numerical, image, audio, video, sensor data, etc., within the same context or domain. The second topic Ms. Saloni discussed was related to word embedding. Word embedding is a technique used in natural language processing (NLP) to represent words as dense vectors of real numbers in a continuous vector space.

# EXPERT SESSION ON MULTI-MODELLING, WORD EMBEDDINGS AND DEEP LEARNING

11/05/2024-12/05/2024



The poster features a light blue background with a large, colorful, faceted geometric shape on the right side. At the top left, it displays the logos for the Institution's Innovation Council and the Department of Applied Sciences. The main title is in bold, dark blue text. Below the title, a short description of the session is provided. A circular portrait of the speaker, Saloni Verma, is shown on the left, with her name and title below it. To the right of the portrait, three bullet points describe her professional background. The date and time of the session are highlighted in a white box with a blue border. At the bottom, the names of the teacher coordinators are listed.

**INSTITUTION'S INNOVATION COUNCIL**  
IIC@GTBIT IN COLLABORATION WITH  
DEPARTMENT OF APPLIED SCIENCES  
BRINGS TO YOU

**EXPERT SESSION ON  
MULTI-MODALITY, WORD  
EMBEDDINGS AND DEEP  
GRAPH LEARNING**

Explore and Learn about the Advanced Techniques in  
Natural Language Processing (NLP) along with case  
studies in this 1 hour long online session

**Saloni Verma**  
System Engineer at  
Boehringer Ingelheim

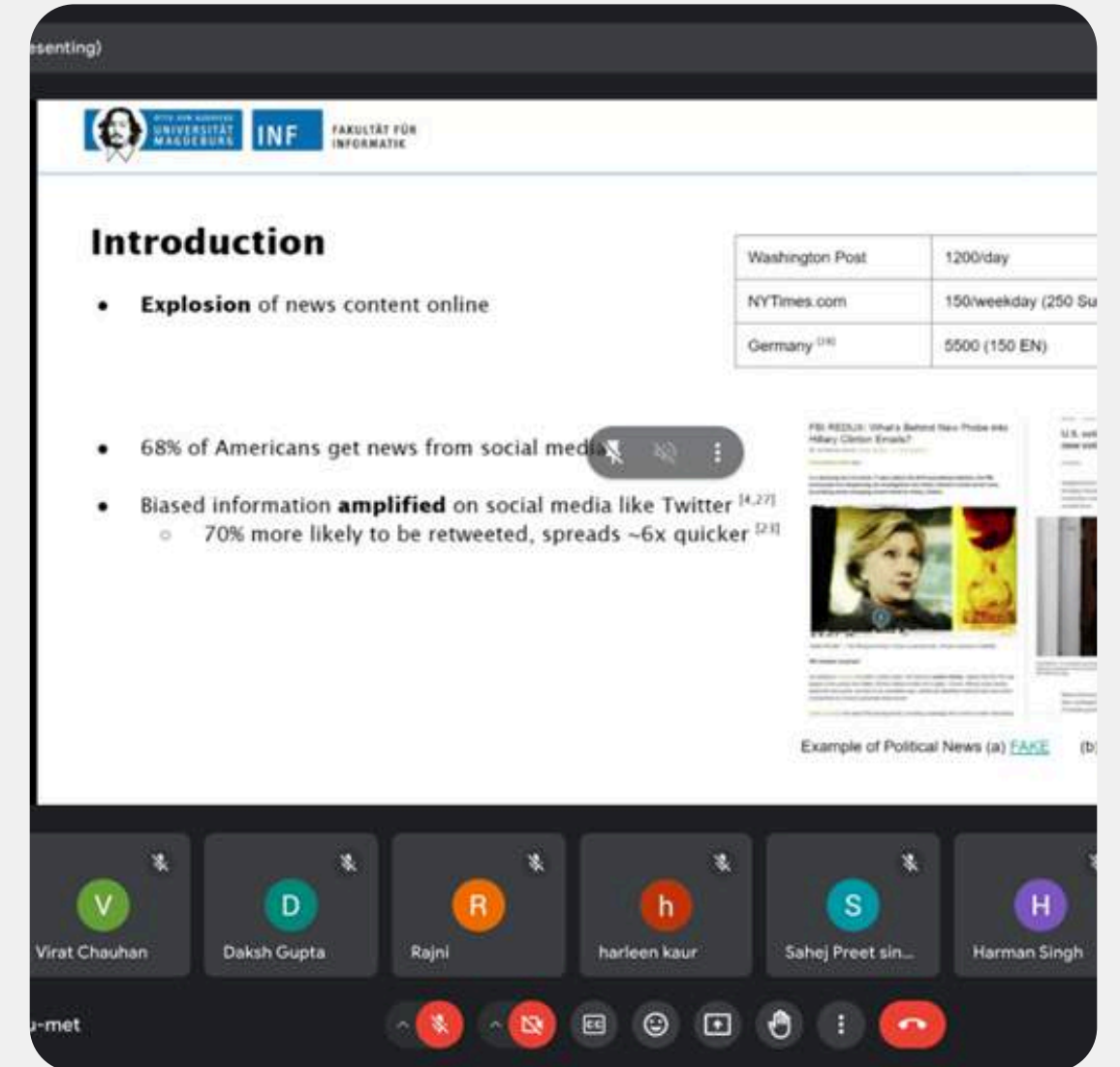
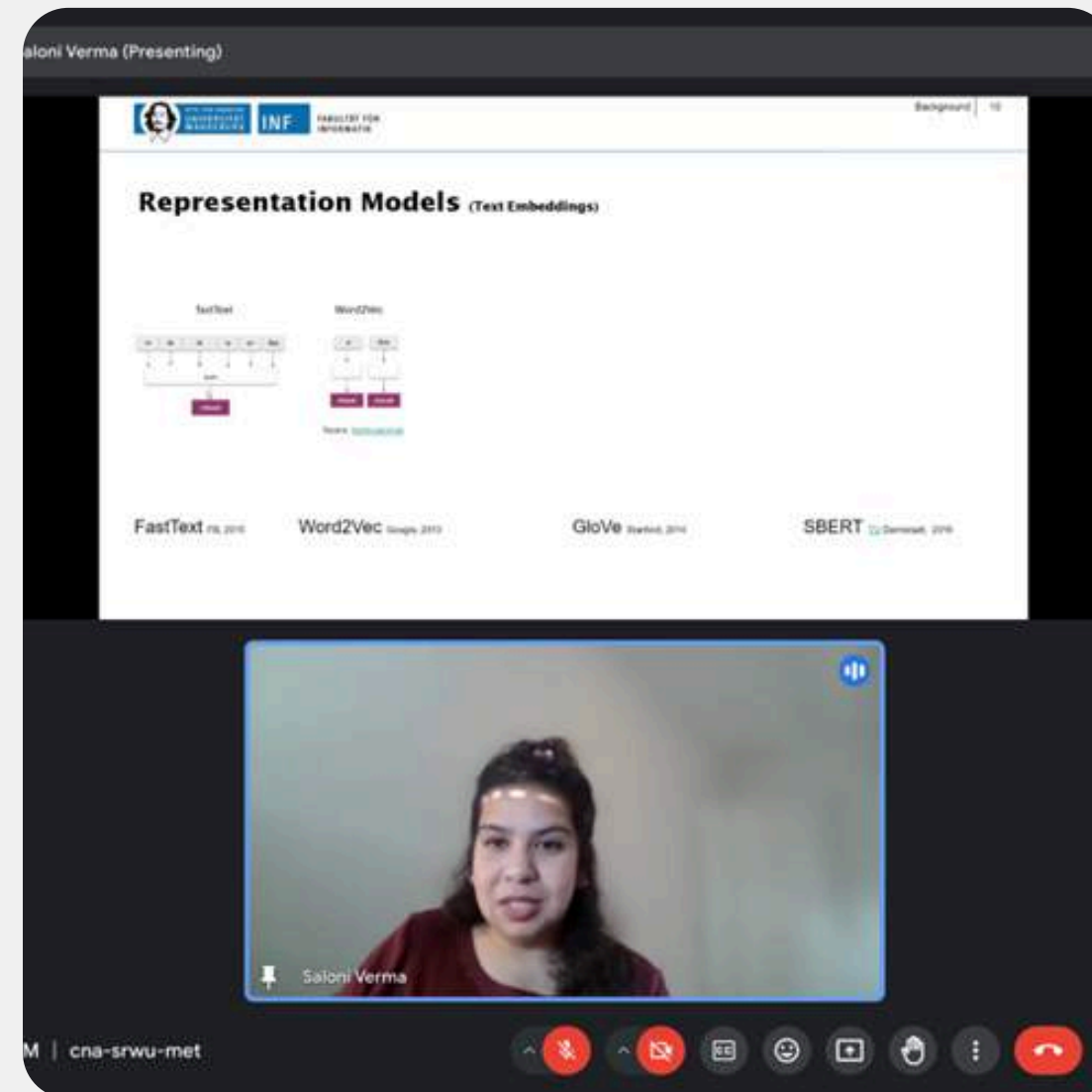
- Currently Leading the development and design of software + management of Engineering team in Germany's #1 Pharmaceutical company.
- Over 6+ years of experience in Data Analysis and Software Development
- Lead the technical integrator consulting team for the authentication project for the Volkswagen Group - CARIAD, one of the world's largest automotive companies.

**11TH MAY - 10 AM**

10 AM Online

Teacher Coordinators  
Dr. Seema Singh Dr. Amandeep Kaur

# GLIMPSES OF THE EVENT



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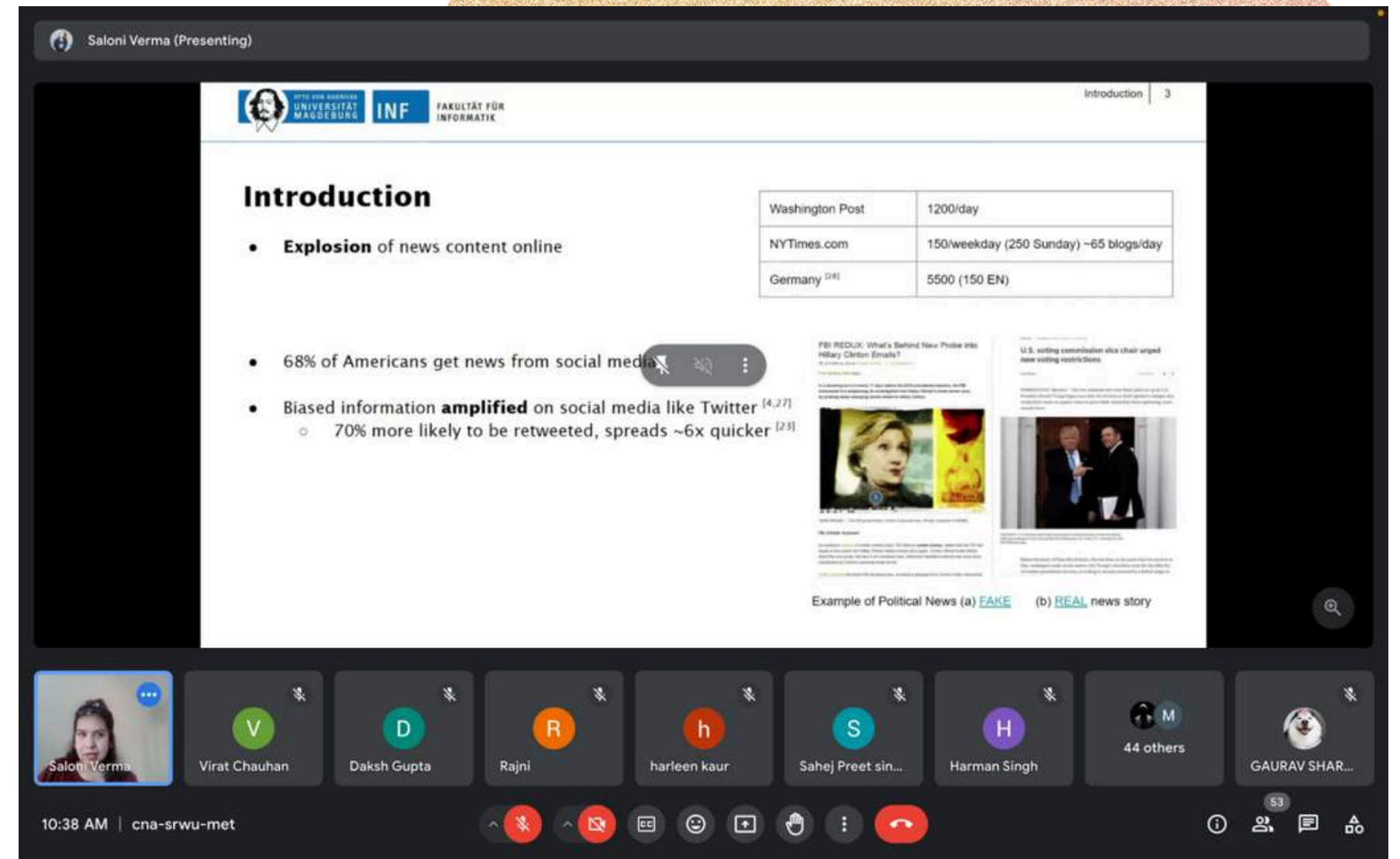
## Event 8.

Institution's Innovation Council (IIC) under the Ministry of HRD, in collaboration with the Department of Applied Sciences, conducted an online session based on the Mentor-Mentee Scheme on 15th May 2024. The session was facilitated by Delhi Technological University, the mentor institution, with Guru Tegh Bahadur Institute (GTBIT) as one of the mentee institutions. The Mentor-Mentee Programme Coordinator, along with the IIC members of the college, were cordially invited to participate in this session.

The aim for this session was a discussion regarding various strategies and valuable faculty development methods which would assist in increasing the standards for teaching for the mentee institutes. Innovative teaching and learning methods were another key focus of the session. The latest pedagogical techniques and technologies to enhance the learning experience were discussed, providing valuable insights into how modern tools and approaches can be integrated into the educational framework to benefit both students and faculty.

# ORIENTATION CUM MENTORSHIP SESSION UNDER MENTOR-MENTEE PROGRAM

15/05/2024



Saloni Verma (Presenting)

UNIVERSITÄT MAGDEBURG INF FAKULTÄT FÜR INFORMATIK Introduction 3

### Introduction

- **Explosion** of news content online
- 68% of Americans get news from social media
- Biased information **amplified** on social media like Twitter
  - 70% more likely to be retweeted, spreads ~6x quicker

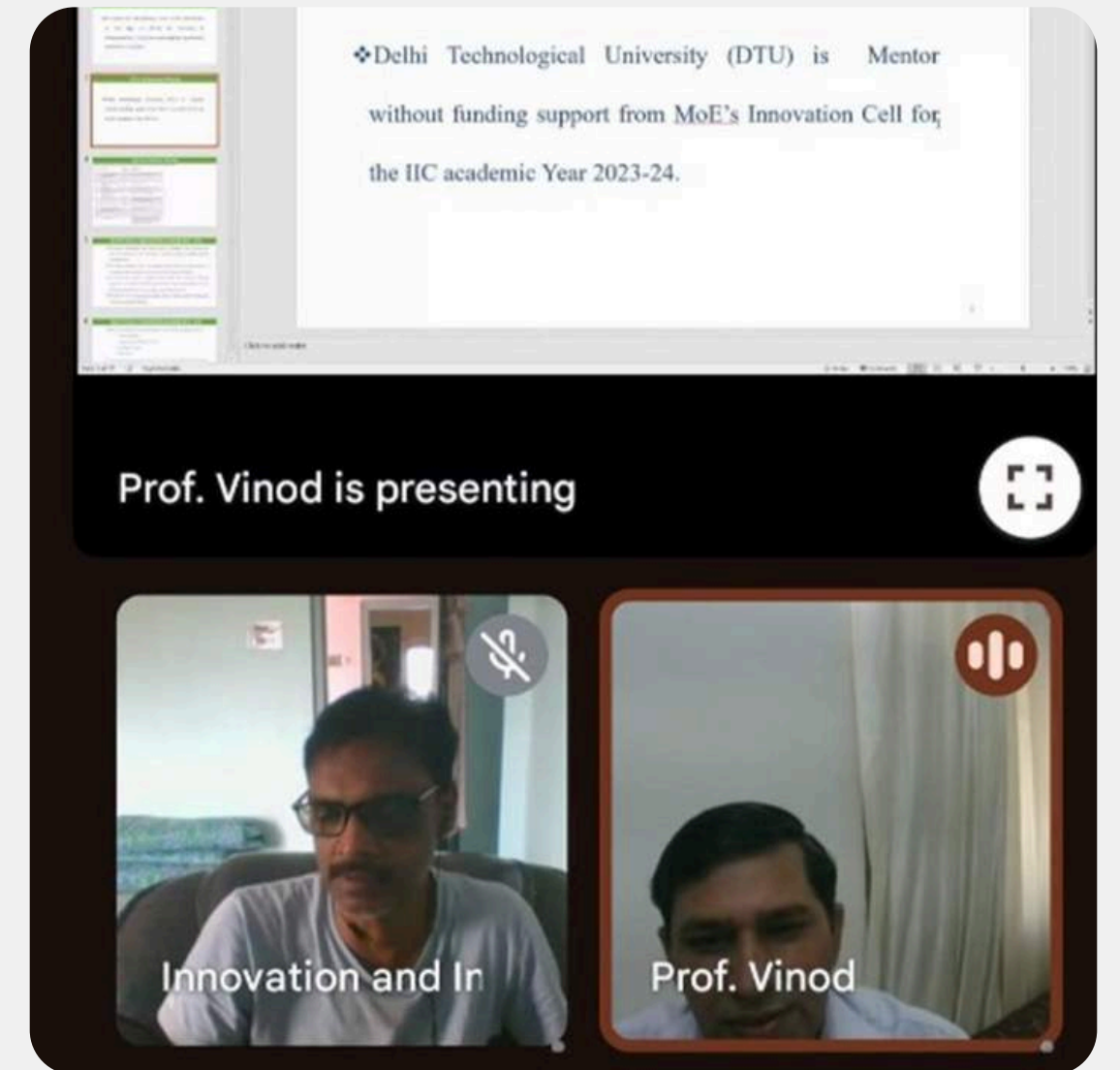
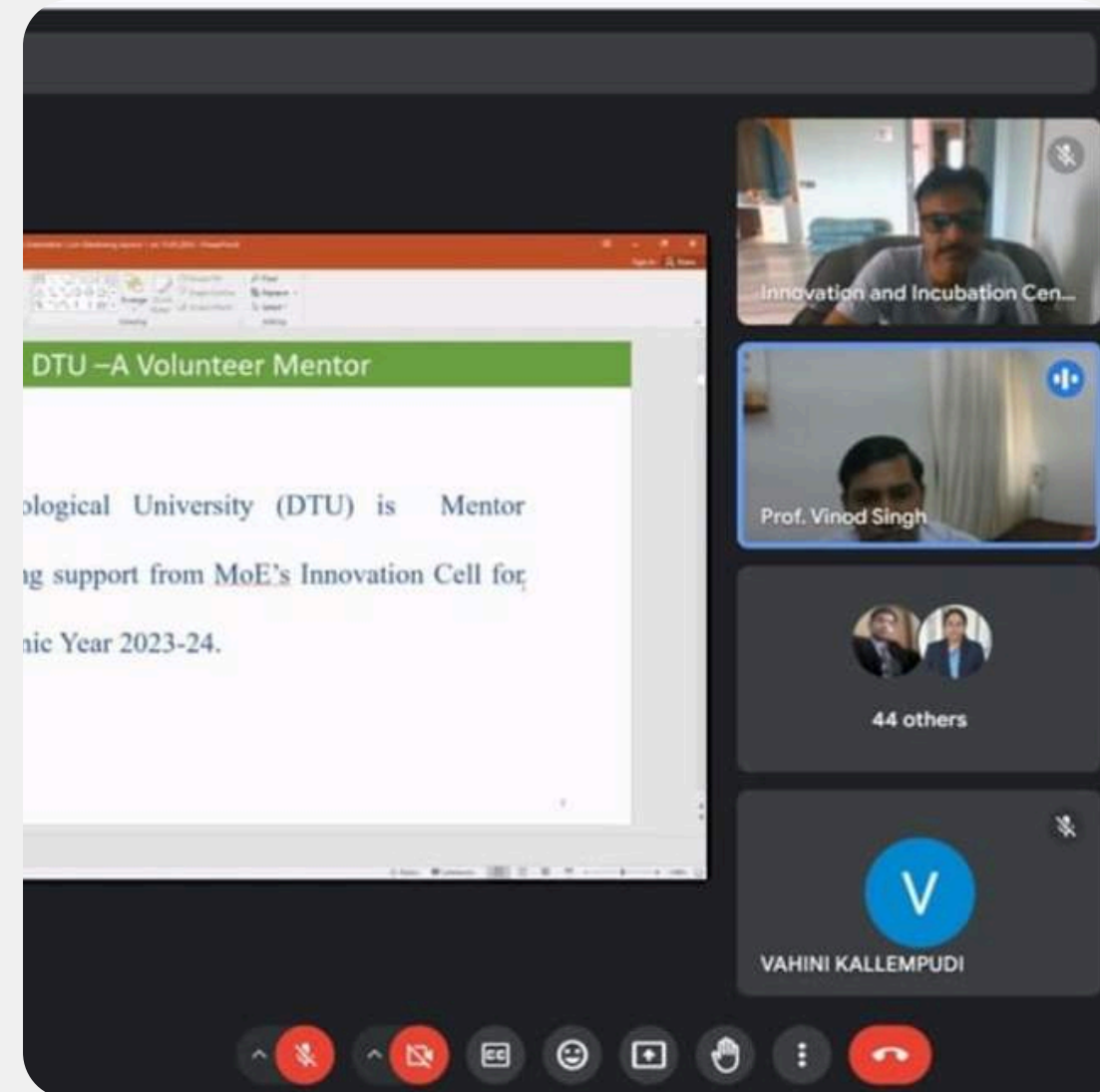
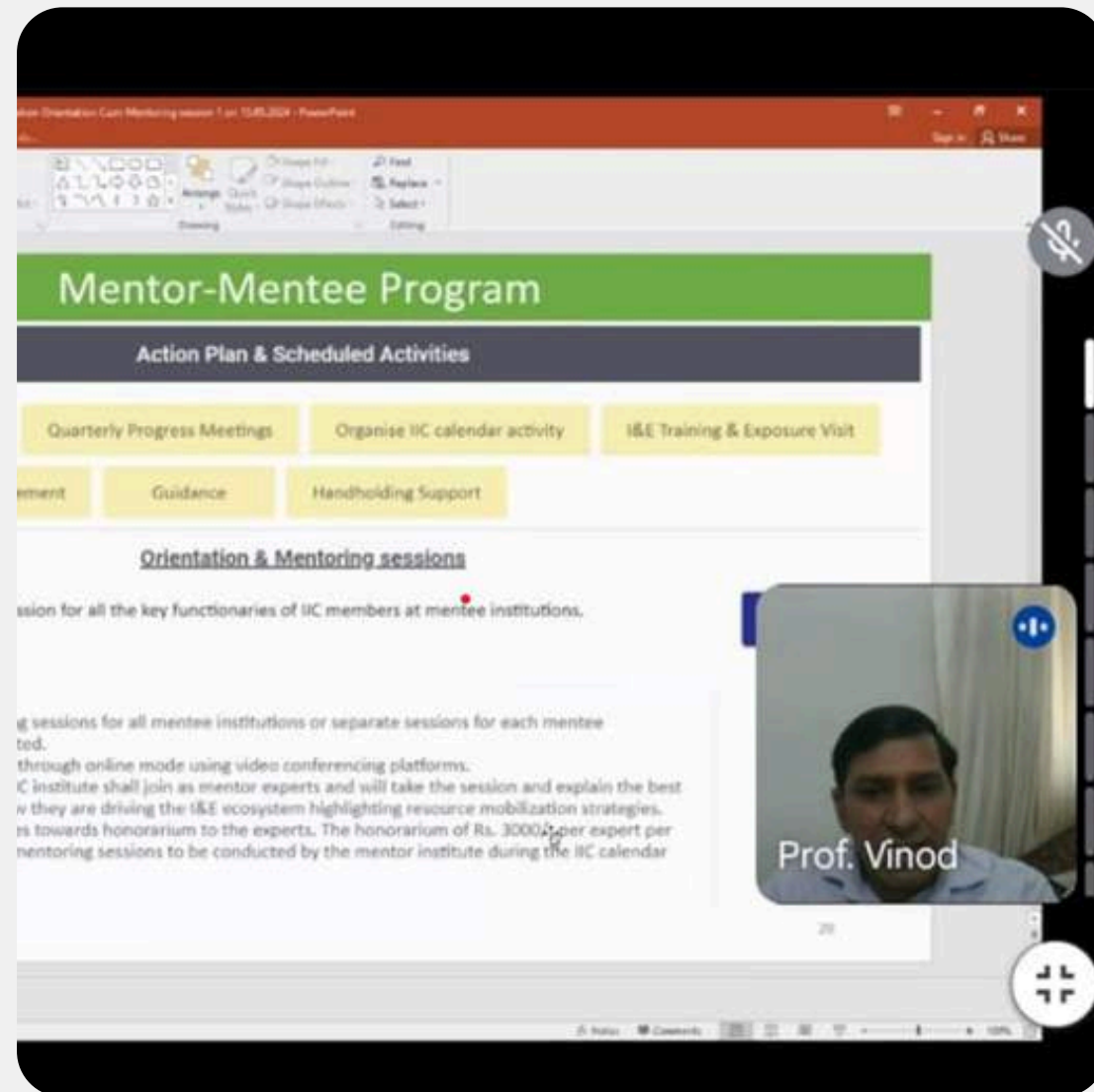
Washington Post	1200/day
NYTimes.com	150/weekday (250 Sunday) ~65 blogs/day
Germany [24]	5500 (150 EN)

Example of Political News (a) **FAKE** (b) **REAL** news story

10:38 AM | cna-srwu-met

Participants: Saloni Verma, Virat Chauhan, Daksh Gupta, Rajni, harleen kaur, Sahej Preet sin..., Harman Singh, 44 others, GAURAV SHAR...

# GLIMPSES OF THE EVENT



**Links:**

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