

हंसराज महाविद्यालय

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

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Name of the Event: 3rd International Seminar Session on Forecasting
Geomagnetic Storms

Organized by: Ordinateur in collaboration with HRC Shakti under IQAC

Date of the Event: 28 March 2025

Duration/Event Timing: 5:00 PM – 7:00 PM

Medium of the Conduct: Online ZOOM webinar session

Event Convener: Dr. Vidhi Khanduja and Dr. Sunita Chand

Society Convener: Mr. Suyash Kumar (Ordinateur) , Dr. Jnaneshwari Gellanki (HRC Shakti) and Dr. Ridhi Khurana (Co-Convenor HRC Shakti) **Teacher in Charge:** Prof. (Dr.) Baljeet Kaur

Event Description:

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SHAKTI – AN INITIATIVE OF HRC DISHA

Under the aegis of IQAC



3RD INTERNATIONAL SEMINAR SESSION

DR. ISHITA GULATI

Space Weather Research Scientist | School of Engineering,
Newcastle University | England, UK

On

FORECASTING GEOMAGNETIC STORMS: LSTM BASED PREDICTION OF DST AND AE INDICES

Friday, March 28, 2025 | 5:00 PM Onwards IST | Via Zoom

[CLICK HERE](#) to join us online via Zoom



Dr. Ishita Gulati

Dr. Vidhi Khanduja, Coordinator, Computer Science Department

Dr. Sunita Chand, Coordinator, Computer Science Department

Dr. Ridhi Khurana, Co-convenor Shakti

Dr. Jnaneswari Gellanki, Convenor Shakti

Prof. Baljeet Kaur, Teacher In-Charge, Department of Computer Science

Prof. Preeti Dharmarha, Convenor HRC DISHA

Dr. Alka Kacker, IQAC Director

Prof. Vijay Rani Rajpal, Vice-Principal

Prof. Rama, Principal

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Ordinateur, in collaboration with HRC Shakti and under the aegis of IQAC, proudly hosted an enlightening international webinar on the cutting-edge topic “Forecasting Geomagnetic Storms: LSTM-based Prediction of Disturbance Storm Time (DST) and Auroral Electrojet (AE) Indices.” The session featured **Dr. Ishita Gulati**, a distinguished space weather research scientist from Newcastle University, UK, as the guest speaker.

The event commenced with a warm welcome by our event convenors and a formal introduction of Dr. Gulati, highlighting her extensive work in the field of space weather forecasting and artificial intelligence applications in astrophysics.

Dr. Gulati began the session with a concise yet insightful overview of geomagnetic storms—explaining their origins from solar activities such as coronal mass ejections and solar flares, and how they interact with Earth’s magnetosphere. She detailed the significant impact these storms have on modern technology, including GPS systems, satellites, power grids, and communication networks, making the case for early forecasting all the more crucial.

The session progressed with an engaging explanation of space weather and its interaction with Earth and artificial systems. Using graphical simulations, Dr. Gulati showcased the process of geomagnetic storm formation, the role of solar wind, and Earth’s magnetic field dynamics— making complex scientific phenomena easily understandable.

A major highlight of the webinar was the deep dive into machine learning and neural networks, particularly the LSTM (Long Short-Term Memory) model. Dr. Gulati broke down key ML concepts, model training processes, prediction strategies, and the advantages of using LSTM for time-series forecasting of geomagnetic indices such as DST and AE. She also shared real-world insights into model deployment and performance evaluation.

The event concluded with an engaging Q&A session, where the audience students posed thoughtful questions, initiating in-depth discussions. Dr. Gulati responded with clarity and enthusiasm, leaving the audience both informed and inspired. The session

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witnessed active participation and overwhelming appreciation, making it a resounding academic success.

Special thanks goes to the organizers and coordinators for their collective efforts in making this event a significant achievement.

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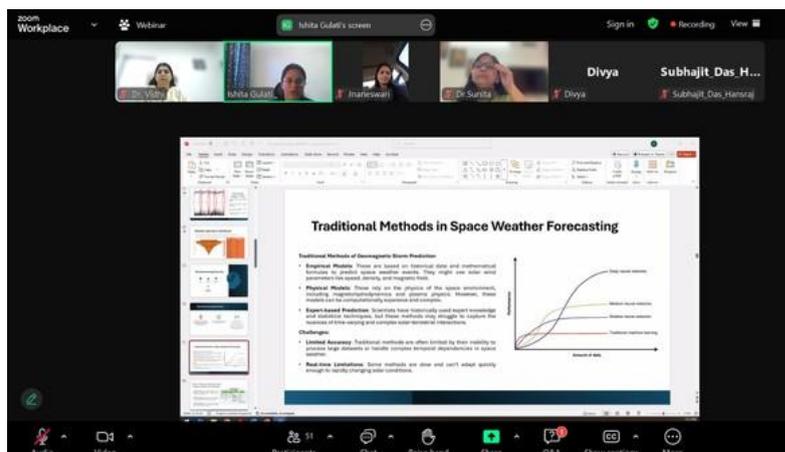
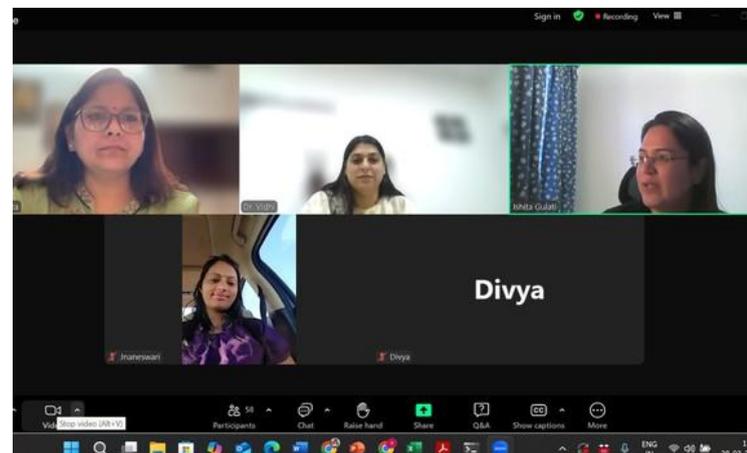
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Glimpses of the Event:



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Attendance Record:

Attendance

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893 5158 9693	03/28/2025 04:45:31 PM	136
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