



Tirumala Tirupati Devasthanams

శ్రీ వేంకటేశ్వర కళాశాల

Sri Venkateswara College

(University of Delhi)

NAAC Grade A+

EVENT REPORT

NAME OF THE EVENT: One-Day Academic Workshop on topic “Numerical Techniques, Mathematical Modelling for Weather Forecasting and Machine Learning: A Mathematical Approach”			
DATE	DEPARTMENT	COMMITTEE/SOCIETY	COORDINATORS' NAME
09.02.2026	Mathematics	The Department of Mathematics, Sri Venkateswara College	Dr. Sudhakar Yadav
TIME	VENUE	NUMBER OF PARTICIPANTS	NATURE: Outdoor/Indoor; online/offline/hybrid
9:30 AM to 6:00 PM	Seminar Room and ICT Lab 3	91	Indoor, Offline
FINANCIAL SUPPORT/ ASSISTANCE (if any):	Yes Funds for fourth Year, Department of Mathematics, Sri Venkateswara College		

Overview:

A one-day academic workshop titled “**Numerical Techniques, Mathematical Modelling for Weather Forecasting and Machine Learning: A Mathematical Approach**” was held on **9 February 2026** at **Sri Venkateswara College**, University of Delhi. The workshop aimed to provide participants with theoretical insights and practical exposure to numerical techniques, identification of future research problems, mathematical modelling, weather forecasting methods, and modern machine learning approaches.

The sessions were delivered by distinguished resource persons: **Dr. Vivek Kumar Aggarwal**, Department of Applied Mathematics, Delhi Technological University; **Dr. Adarsh Barik**, Department of Computer Science & Engineering, IIT Delhi; and **Dr. Swarnali Majumder** and **Dr. Shashi Kant**, National Weather Forecasting Centre (NWFC), India Meteorological Department.

The workshop witnessed enthusiastic participation from undergraduate students and faculty members, making it a highly engaging, research-oriented, and academically enriching event.

9th Feburay 2026

Inaugural Session (9:30 AM – 10:30 AM)

The workshop commenced with a formal inaugural ceremony held at **Sri Venkateswara College**. The session was graced by the esteemed presence of **Prof. Vajala Ravi**, Principal of the College; **Prof. Swarn Singh**, Teacher-in-Charge, Department of Mathematics; **Dr. Sudhakar Yadav**, Convener of the Workshop; distinguished resource persons; and faculty members of the Department of Mathematics.

The inaugural session set an inspiring academic tone and included the following highlights:

1. Lamp Lighting Ceremony

The ceremony began with the traditional lamp lighting, symbolizing the triumph of knowledge over ignorance and the illumination of wisdom. The respected Principal, invited resource persons, and senior faculty members participated in this auspicious ritual, formally marking the commencement of the workshop.

2. Welcome Address

Following the lamp lighting, **Prof. Swarn Singh**, Teacher-in-Charge, Department of Mathematics, delivered the welcome address. He warmly greeted the Principal, distinguished guests, faculty members, and students, and emphasized the significance of organizing such academic workshops for intellectual growth and research orientation.

3. Address by the Principal

The inaugural session was addressed with an inspiring speech by **Prof. Vajala Ravi, Principal of the College**. He highlighted the importance of interdisciplinary learning, research-driven education, and the significant role of mathematics and machine learning in solving real-world problems. His encouraging words motivated the participants to actively engage in the technical sessions of the workshop.

4. Introduction of Resource Persons

Dr. Sudhakar Yadav, Convener of the Workshop, introduced the esteemed resource persons, highlighting their academic achievements, research contributions, and expertise in numerical techniques, mathematical modelling, weather forecasting, and machine learning.

5. Presentation of Mementos and Saplings

As a token of respect and gratitude, mementos and saplings were presented to the distinguished resource persons by the Principal, Prof. Swarn Singh, Dr. Sudhakar Yadav, and faculty members of the Department of Mathematics. The saplings symbolized growth, sustainability, and the nurturing of knowledge.

Lecture-I (10:30 AM – 12:00 PM) – Seminar Room

The first technical session was delivered by **Dr. Vivek Kumar Aggarwal**, Department of Applied Mathematics, Delhi Technological University, on the topic “**Method of Least Squares Approximation with MATLAB Applications.**”

He explained the fundamentals of **curve fitting and regression analysis**, focusing on the least squares method for determining the best-fit line by minimizing the sum of squared errors. The derivation of **normal equations** and linear least-squares regression were briefly discussed.

Practical implementation using **MATLAB** was demonstrated through examples of straight-line and quadratic polynomial fitting using `polyfit` and `polyval`, along with residual analysis.

The session also highlighted key applications in econometrics, statistical analysis, and trend prediction, along with the advantages and limitations of the least squares method.

Lecture-II (12:00 PM – 01:30 PM) – ICT Lab-III

The session was delivered by **Dr. Adarsh Barik**, Department of Computer Science & Engineering, IIT Delhi, on “**Machine Learning: A Mathematical Approach.**”

He discussed the mathematical foundations of machine learning, including hypothesis models, loss functions, optimization, model evaluation and deep neural network. Key concepts such as regression, classification, overfitting, and generalization were briefly explained, highlighting the role of linear algebra and probability in learning algorithms.

Lecture-III (02:00 PM – 03:30 PM) – ICT Lab-III

The third technical session was delivered by **Dr. Swarnali Majumder**, National Weather Forecasting Centre (NWFC), India Meteorological Department, on the topic “**Numerical Techniques and Mathematical Modelling for Weather Forecasting and Machine Learning: A Mathematical Approach.**”

She discussed the complete data science workflow—from data collection, cleaning, visualization, and modelling to forecasting and validation. The lecture covered time series analysis, trend and periodicity detection using FFT and Singular Value Decomposition (SVD), and applications in sea surface temperature and wave forecasting. Dr. Majumder explained supervised and unsupervised learning methods, including regression models, decision trees, Naïve Bayes, clustering, and neural networks. Special emphasis was given to **ensemble forecasting techniques (KEM and MEM)** for improving prediction accuracy in extreme weather events.

Real-world applications such as cyclone prediction, rainfall forecasting, landslide prediction, and Potential Fishing Zone (PFZ) advisory services were highlighted. The session concluded with validation techniques including RMSE, correlation coefficient, and confusion matrix for model performance assessment. The lecture effectively integrated numerical methods, machine learning, and operational forecasting practices.

Lecture-IV (04:00 PM – 05:30 PM) – ICT Lab-III

The fourth technical session was delivered by **Dr. Shashi Kant**, Scientist-D, National Weather Forecasting Centre (NWFC), India Meteorological Department, Ministry of Earth Sciences, on the topic “**An Overview of Weather Forecasting.**”

Dr. Kant explained the importance and societal need of weather forecasting in disaster management, agriculture, transportation, health, and socio-economic planning. He described weather forecasting as a **mathematical initial value problem**, emphasizing observations (pressure, temperature, humidity, wind), data assimilation, and model-based prediction.

The lecture introduced **Numerical Weather Prediction (NWP)** models based on hydro dynamical and primitive equations (mass, momentum, and energy conservation). Fundamental concepts such as **convergence, divergence, and vorticity** were discussed in relation to cyclones and atmospheric dynamics. He also highlighted operational forecasting practices of IMD, challenges such as computational limitations, data errors, and model uncertainties, along with research areas including rainfall modelling and stochastic approaches.

The session provided participants with a comprehensive understanding of the scientific and mathematical foundations of modern weather forecasting.

Concluding Session (05:30 PM – 05:45 PM)

The workshop concluded with the **Valedictory Remarks and Vote of Thanks** delivered by **Dr. Sudhakar Yadav**, Convener of the Workshop, Department of Mathematics, **Sri Venkateswara College**.

He expressed sincere gratitude to the respected Principal, distinguished resource persons, faculty members, and enthusiastic participants for their valuable presence and active involvement. He acknowledged the insightful lectures delivered throughout the day and appreciated the collective efforts that made the workshop successful.

The session concluded on a positive and inspiring note, marking the successful completion of the one-day academic workshop.

Feedback on the One-Day Workshop

Participants were requested to share their valuable feedback on the workshop through a Google Form.

The feedback form can be accessed through the link provided below (Google Drive link):

<https://forms.gle/TUt4L6oZXQRaktiS7>

The feedback received will help in improving the quality and effectiveness of future academic events and workshops.

Conclusion and Outcome

The one-day academic workshop on “**Numerical Techniques, Mathematical Modelling for Weather Forecasting and Machine Learning: A Mathematical Approach**” successfully brought together experts, faculty members, and students on a common platform for academic interaction and knowledge exchange at **Sri Venkateswara College**.

The workshop effectively integrated theoretical concepts with practical applications in numerical methods, machine learning, and operational weather forecasting. The sessions provided participants with deeper insights into regression techniques, data-driven modelling, ensemble forecasting, decision tree methods, and numerical weather prediction models.

The key outcomes of the workshop include:

- Enhanced understanding of mathematical foundations behind machine learning and forecasting models.
- Exposure to real-world applications in climate science, disaster prediction, and data analysis.
- Awareness of current research challenges and emerging areas in weather forecasting and modelling.
- Motivation among students to explore research-oriented problems in applied mathematics and data science.

Overall, the workshop was highly informative, interactive, and academically enriching, achieving its objective of bridging mathematics, computation, and real-world forecasting applications.

PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

1 Notice & Letters ✓	2 Number of Participants & Name of participants ✓	3 Video clip	4 Photos ✓	5 Feedback Form & Analysis ✓
6 News clip with details	7 Sample Copy of the Certificate ✓	8 Posters/ Invites ✓	9 Event report Attested by Event Coordinator & IQAC Coordinator ✓	10 Any other document ✓

IQAC Document No: SVC/IQAC/Mathematics/2025-26/February 2025	Criterion No: II, III & V
Departmental file no: SVC/Mathematics/2025-26/ February 2025/07	IQAC file No: SVC/IQAC/Mathematics/2025-26// February 2025/07

NAME OF TEACHER & SIGNATURE	NAME OF HEAD/ COMMITTEE INCHARGE SIGNATURE &	IQAC COORDINATOR (SEAL & SIGNATURE)
Dr. Sudhakar Yadav	 Dr. Sudhakar Yadav	

For Reference

Criterion I	Curricular Aspects (planning & Implementation)	Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation	Criterion VI	Governance
Criterion III	Research, Innovations & Extension	Criterion VII	Institutional Values & Best Practices
Criterion IV	Learning Resources and Infrastructure		

Proof:

Permission Letter:

Is it a part of Mathematics dept. festival? If not, why can't this be included in the festival itself?

Why is it being conducted on a Monday? It can be done on a day with R & A slots!



Sri Venkateswara College
(University of Delhi)
NAAC Grade A+

PERMISSION FOR ORGANIZATION OF EVENTS

- NOTE: 1. Please ensure a pre booking of the venue before getting the permission letter signed.
2. A copy of this duly filled form signed by the TIC/ Convener, IQAC Coordinator and Principal shall be submitted to ICT and/or Caretaker for necessary action.
3. Please ensure that the completion certificate of the event is physically signed by the Convener of the event, IQAC Coordinator and Principal after the event report is made.

EVENT DETAILS

1. Name of the Department/Society/Association: Mathematics
2. Name of the TIC and/or Convener: Prof./Dr./Mr./Ms. SUDHAKAR YADAV
3. Proposed Title of the Event: One-day academic workshop on Numerical Techniques, Mathematical Modelling for weather forecasting and Machine Learning
4. Nature of Event: Seminar/Conference/Symposium/Workshop/FDP/Public or Community outreach/ Skill enhancement/others (Please specify) Mathematical Modelling for weather forecasting and Machine Learning
5. Participants: Student-centric /Faculty/ Other stakeholders (Please specify) Students and Faculty
6. Event Type: Offline/Online/Hybrid Indoor/Outdoor
7. Collaborating Agency /Organization (If any): NA
8. Tentative List of Speakers with affiliations: Dr. Vivek Kumar, Applied Mathematics Department, Delhi Technological University (DTU)
Dr. Shashi Kant, Scientist D, National Weather Forecasting Centre, IMD, Delhi
Dr. Swarnika Mayawati, GGS Indraprastha College for Women, New Delhi
Dr. Adarsh Bhatnagar, Department of Computer Science and Engg, IIT Delhi
9. Date & Time (from - to): 09/02/2025, 9:30 AM to 5 PM
10. Financial Assistance/ Funding received (if any) (Please specify amount):
11. Proposed Budget (please attach details in a separate enclosure): Req. For a hall rent

12. Faculty responsible for Geo Tagged Pictures Dr. SUDHAKAR YADAV

13. Faculty responsible for Event Report Dr. SUDHAKAR YADAV

14. ICT support required, if any (ICT Lab, Laptop, LCD projector)

15. Caretaker support required (tables, chairs, public addressing system, sanitation, manpower assistance)

16. Venue requirement (Seminar hall/ Ground/others) Seminar Room (9AM to 12PM)
ICT Lab - III (12 PM to 5 PM)

Sudhakar
TIC/Convenor

Date:

For official purpose

Comments (If any)

Critera 3

Plz submit previous event report.

→ No compensatory attendance to students

For Rishi Mishra
IQAC Coordinator

Date:

[Signature]
Principal
Date: 30/1/26

Poster-



SRI VENKATESWARA COLLEGE
(ACCREDITED WITH GRADE A+ BY NAAC)
UNIVERSITY OF DELHI
DEPARTMENT OF MATHEMATICS

IS ORGANIZING
A WORKSHOP ON
"NUMERICAL TECHNIQUES,
MATHEMATICAL MODELLING FOR
WEATHER FORECASTING AND
MACHINE LEARNING
A MATHEMATICAL APPROACH"

DISTINGUISHED RESOURCE PERSONS

- DR. VIVEK KUMAR AGGARWAL
DEPARTMENT OF APPLIED MATHEMATICS
DELHI TECHNOLOGICAL UNIVERSITY
- DR. ADARSH BARIK
DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING, IIT DELHI
- DR. SWARNALI MAJUMDER
NATIONAL WEATHER FORECASTING CENTRE
INDIA METEOROLOGICAL DEPARTMENT
- DR. SHASHI KANT
NATIONAL WEATHER FORECASTING CENTRE
INDIA METEOROLOGICAL DEPARTMENT

Details

DATE:
9th February 2026

TIME:
09:30 AM to 6:00 PM

VENUE:
**Seminar Hall &
ICT LAB III**



PROF. VAJALA RAVI
(PRINCIPAL)

PROF. SWARN SINGH
(TEACHER IN CHARGE)

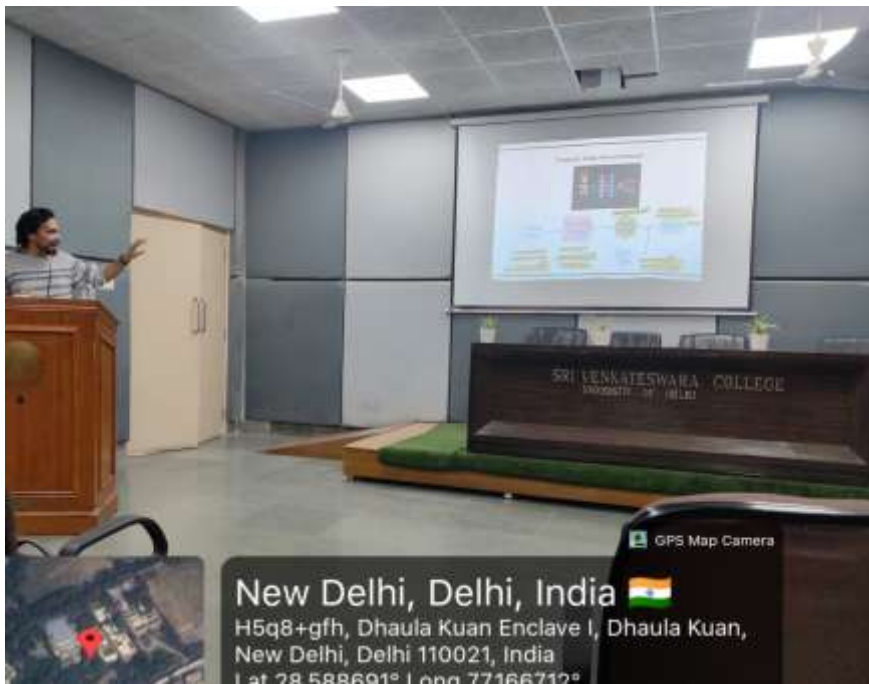
DR. SUDHAKAR YADAV
(CONVENER)

Photos:













New Delhi, Delhi, India 🇮🇳

Dhaura Kuan, New Delhi, Delhi 110021, India

Lat 28.588821, Long 77.167524

Monday, 09/02/2026 05:07 PM GMT+05:30

Note : Captured by GPS Map Camera

Participant Certificate



Sri Venkateswara College University of Delhi Certificate of Participation



This is to certify that Mr., a student of....., Sri Venkateswara College, University of Delhi, has participated in the One-Day Academic Workshop titled “Numerical Techniques, Mathematical Modelling for Weather Forecasting and Machine Learning: A Mathematical Approach”, organized by the Department of Mathematics, Sri Venkateswara College, University of Delhi, held on 9th February 2026.

Dr. Sudhakar Yadav
Convener

Prof. Swarn Singh
Teacher in Charge

Prof. Vajala Ravi
Principal

Attendance for Inaugural Session and All Lecture Sessions:

Kanishk Kachhat 1823002 BSc Physics (H) Cr Cr
 Luvkesh Malik 1823702 BSc Physics (H) ~~Cr~~ ~~Cr~~
 Piyanshu Sharma 1823062 BSc (H) Physics ~~Cr~~ ~~Cr~~

~~Cr~~ ~~Cr~~
~~Piyanshu~~ ~~Piyanshu~~

13	Ajush Jethwala	1722019	BSc (H) Maths 4th year	Ajush	Ajush	Ajush	Ajush	Ajush
14	Sadhna	1723902	BSc Chemistry 3rd year					Sadhna
15	Suhani	1723904	" 3rd year					Suhani
16	Anshu	1723906	" 3rd year					Anshu
17	Vikram Pandey	1723092	" 3rd year					Vikram Pandey
18	Gagandeep	1723132	" 3rd year					Gagandeep
19	Shivam Yadav	1723012	BSc (H) Maths 4th year	Shivam	Shivam	Shivam		Shivam
20	Guane	1722058	BSc (H) Maths 4th year	Guane	Guane	Guane		Guane
21	Chhavi Kataria	1723029	BSc (H) Maths	Chhavi	Chhavi	Chhavi		Chhavi
22	Vedika Gupta	1723022	"					Vedika
23	Tanishk Chaudhary	1724132	BSc (H) Maths	Tanishk				Tanishk
24	Shashank Mishra	1724136	BSc (H) Maths	Shashank				Shashank
25	Tanishk Pandey	1724127	"	Tanishk				Tanishk
26	Harsh	1724091	"	Harsh				Harsh
27	Pranav	1724116	"	Pranav				Pranav
28	Tanishk	1724005	BSc Maths 2nd year	Tanishk				Tanishk
29	Sanyukta Singh	1724009	BSc Maths 2nd year	Sanyukta				Sanyukta
30	Ashwini	1724100	BSc Maths 2nd year	Ashwini				Ashwini
31	Aditya Ray	1724137	BSc Maths 2nd year	Aditya				Aditya
32	Nandini	1722102	BSc Maths 2nd year	Nandini				Nandini
33	Ayush Kumar	1722070	BSc Maths 2nd year	Ayush				Ayush

Attendance Sheet - One-Day Academic Workshop
 "Numerical Techniques, Mathematical Modelling for Weather Forecasting and Machine Learning: A Mathematical Approach"
 Department: Mathematics | Date: 09.02.2026 | Venue: Sri Venkateswara College, University of Delhi

S. No.	Roll No.	Full Name	Course / Program	Session-I	Session-II	Session-III	Session-IV	Signature
1	1724005	Sachin Chohan	BSc (H) Maths	Sachin	Sachin	Sachin	Sachin	Sachin
2	1724007	Ansh Singh	BSc (H) Maths	Ansh	Ansh	Ansh	Ansh	Ansh
3	1723067	Yatin Sood	BSc (H) Mathematics	Yatin	Yatin	Yatin	Yatin	Yatin
4	1723059	Dhruv Yadav	BSc (H) Mathematics	Dhruv	Dhruv	Dhruv	Dhruv	Dhruv
5	1722033	Vishal Yadav	BSc (H) Maths	Vishal	Vishal	Vishal	Vishal	Vishal
6	1725137	Harsh Panwar	BSc (H) Maths	Harsh	Harsh	Harsh	Harsh	Harsh
7	1725142	Ishika Kumari	BSc (H) Maths	Ishika	Ishika	Ishika	Ishika	Ishika
8	1725103	Rishika	BSc (H) Maths	Rishika	Rishika	Rishika	Rishika	Rishika
9	1725150	Arun Kumar	BSc (H) Maths	Arun	Arun	Arun	Arun	Arun
10	1725104	Dhruv	"	Dhruv	Dhruv	Dhruv	Dhruv	Dhruv
11	1725144	Musab Ali Khan	"	Musab	Musab	Musab	Musab	Musab
12	1722006	Pratik	BSc (H) Maths	Pratik	Pratik	Pratik	Pratik	Pratik
13	1722055	Ravi Kumar	"	Ravi	Ravi	Ravi	Ravi	Ravi
14	1722039	Aditya Rajpal	"	Aditya	Aditya	Aditya	Aditya	Aditya
15	1725149	Harsh	BSc (H) Maths	Harsh	Harsh	Harsh	Harsh	Harsh
16	1725123	Bhoomika	"	Bhoomika	Bhoomika	Bhoomika	Bhoomika	Bhoomika
17	1725122	Rishika	"	Rishika	Rishika	Rishika	Rishika	Rishika
18	1725138	Kirti Gupta	BSc (H) Maths	Kirti	Kirti	Kirti	Kirti	Kirti
19	1725093	Deeksha	BSc (H) Maths	Deeksha	Deeksha	Deeksha	Deeksha	Deeksha
20	1725111	Riya	BSc (H) Maths	Riya	Riya	Riya	Riya	Riya

13	1724025	Sachin chhokra	BSc (H) Maths	Sachin	Sachin	Sachin	Sachin	Sachin
14	1725126	Aryan	BSc "	Aryan	Aryan	Aryan	Aryan	Aryan
15	1725121	Aryan	"	Aryan	Aryan	Aryan	Aryan	Aryan
16	1725124	Trishon	"	Trishon	Trishon	Trishon	Trishon	Trishon
17	1725088	Vansh Yadav	BSc (H) Maths	Vansh	Vansh	Vansh	Vansh	Vansh
18	1724053	Manny Kumar	BSc (H) Maths	Manny	Manny	Manny	Manny	Manny
19	1724077	Shubham Kumar	BSc (H) Maths	Shubham	Shubham	Shubham	Shubham	Shubham
20	1722102	Naivedya Khandelwal	BSc (H) Maths	Naivedya	Naivedya	Naivedya	Naivedya	Naivedya
21	1722070	Ayushmaan	BSc (H) Maths	Ayush	Ayush	Ayush	Ayush	Ayush
22	1722079	Ashika Rajpal	"	Ashika	Ashika	Ashika	Ashika	Ashika
23	1722006	Purteek	"	Purteek	Purteek	Purteek	Purteek	Purteek
24	1722055	Dev Kumar Sahu	"	Dev	Dev	Dev	Dev	Dev
25	1722019	Ayush Jethmal	"	Ayush	Ayush	Ayush	Ayush	Ayush
26	1722132	Mehak	"	Mehak	Mehak	Mehak	Mehak	Mehak

Attendance Sheet - One-Day Academic Workshop

"Numerical Techniques, Mathematical Modelling for Weather Forecasting and Machine Learning: A Mathematical Approach"
 Department: Mathematics | Date: 09.02.2026 | Venue: Sri Venkateswara College, University of Delhi

S. No.	Roll No.	Full Name	Course / Program	Session-I	Session-II	Session-III	Session-IV	Signature
1	1724051	Gurrampati Pooja	BSc (H) Mathematics	Pooja	Pooja	Pooja	Pooja	Pooja
2	1724008	Pragya Mishra	BSc (H) Mathematics	Pragya	Pragya	Pragya	Pragya	Pragya
3	1724029	Yogesh Kumari	BSc (H) Mathematics	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh
4	0325012	Shivam Yadav	BA (H) Hindi	Shivam	Shivam	Shivam	Shivam	Shivam
5	1725108	Himanshu Beniwal	BSc (H) Mathematics	Himanshu	Himanshu	Himanshu	Himanshu	Himanshu
6	1724139	Pritham Khandu	BSc (H) Mathematics	Pritham	Pritham	Pritham	Pritham	Pritham
7	1725073	Prince	BSc (H) Mathematics	Prince	Prince	Prince	Prince	Prince
8	1724042	PRAGATI TARKAR	BSc (H) MATHEMATICS	Pragati	Pragati	Pragati	Pragati	Pragati
9	1722133	Ahona Shibu	BSc (H) Mathematics	Ahona	Ahona	Ahona	Ahona	Ahona
10	1724021	Anisha Sahu	BSc (H) Mathematics	Anisha	Anisha	Anisha	Anisha	Anisha
11	1724012	Tushita	BSc (H) Mathematics	Tushita	Tushita	Tushita	Tushita	Tushita

Attendance Sheet - One-Day Academic Workshop

"Numerical Techniques, Mathematical Modelling for Weather Forecasting and Machine Learning: A Mathematical Approach"

Department: Mathematics | Date: 04/02/2026 | Venue: Sri Yashwantrao College, University of Delhi

S. No.	Roll No.	Full Name	Course / Program	Session-I	Session-II	Session-III	Session-IV	Signature
1	1724016	Anur Yadav	BSc(H) Maths					
2	1724069	Narenda Anand	BSc(H) Maths					
3	1824042	Dheerendra R	BSc(H) Phys					
4	1824031	Rishabh Patel	BSc(H) Phys					
5	1724047	Ankit Singh	BSc(H) Maths					
6	1823902	Shiksha	BSc(H) Physics					
7	1823002	Kanak Kachhot	BSc(H) Physics					
8	1722083	Anish	BSc(H) Maths					
9	1722050	Kat Dalal	BSc(H) Maths					
10	1722013	Siddharth	BSc(H) Maths					
11	1722032	Tanya	BSc(H) Maths					
12	1725074	Gaurav	BSc(H) Maths					

Feedback

The feedback form can be accessed through the link provided below (Google Drive link):

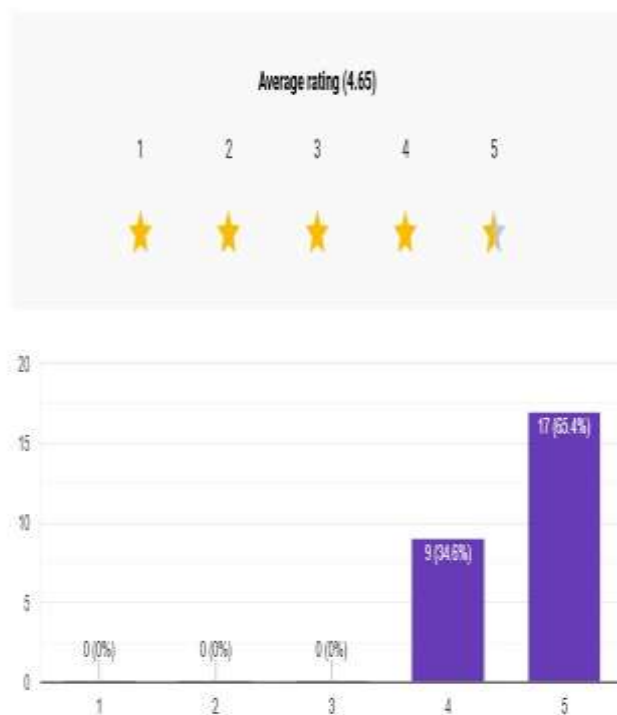
https://docs.google.com/spreadsheets/d/15v7sQb0hQBGeSk0lgU6-ETSQ69mo1p3y/edit?usp=drive_link&oid=114747216437090745284&rtpof=true&sd=true



Subject Expertise of Speakers

[Copy chart](#)

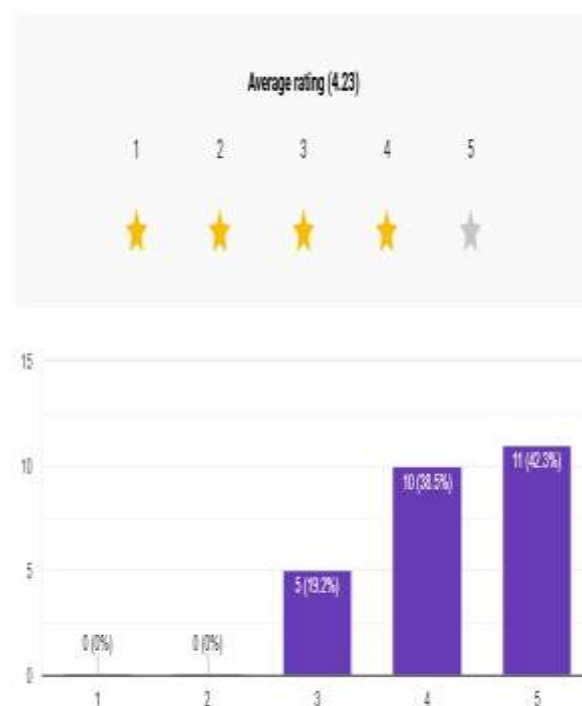
26 responses



Clarity of Presentations

[Copy chart](#)

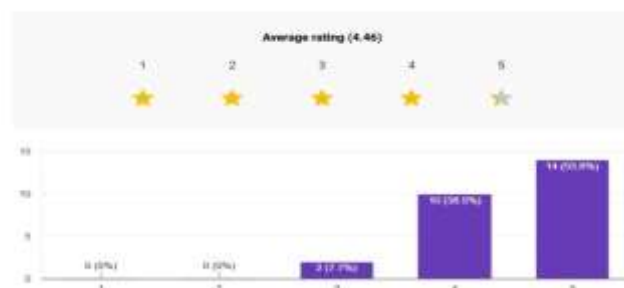
26 responses



Relevance of Topics

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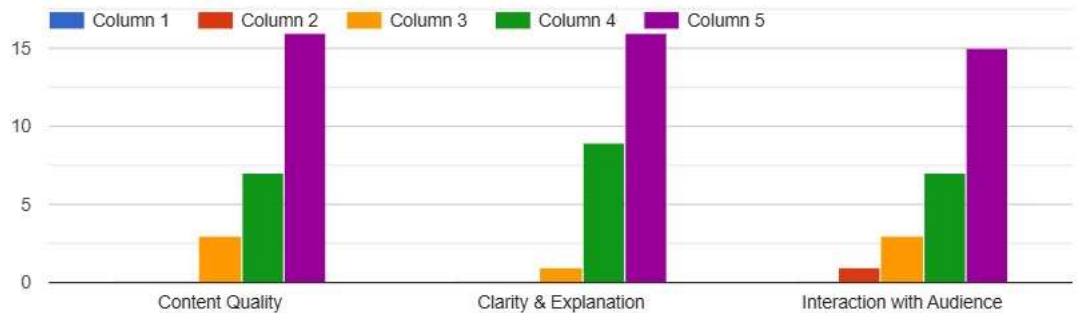
26 responses



Speaker-Specific Feedback

A. Dr. Vivek Kumar Aggarwal

 Copy chart



Overall Organization

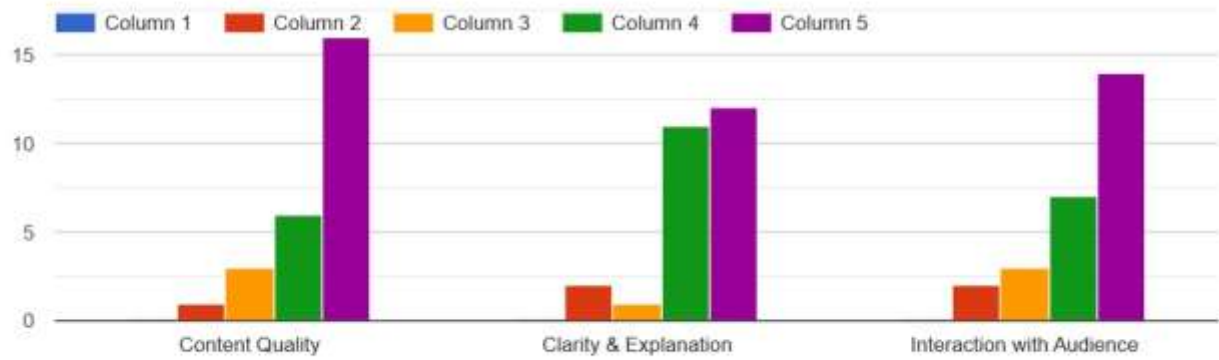
25 responses

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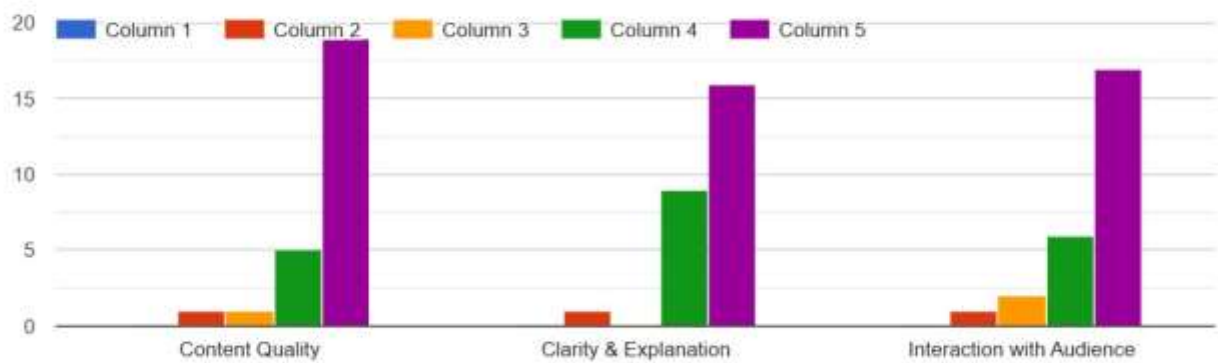
C. Dr. Swarnali Majumder

 Copy chart



B. Dr. Adarsh Barik

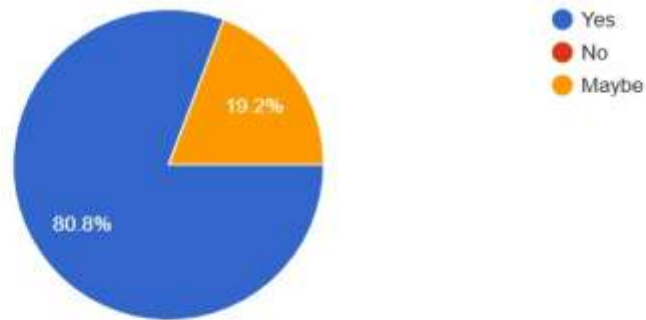
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1. Did the workshop meet your expectations?

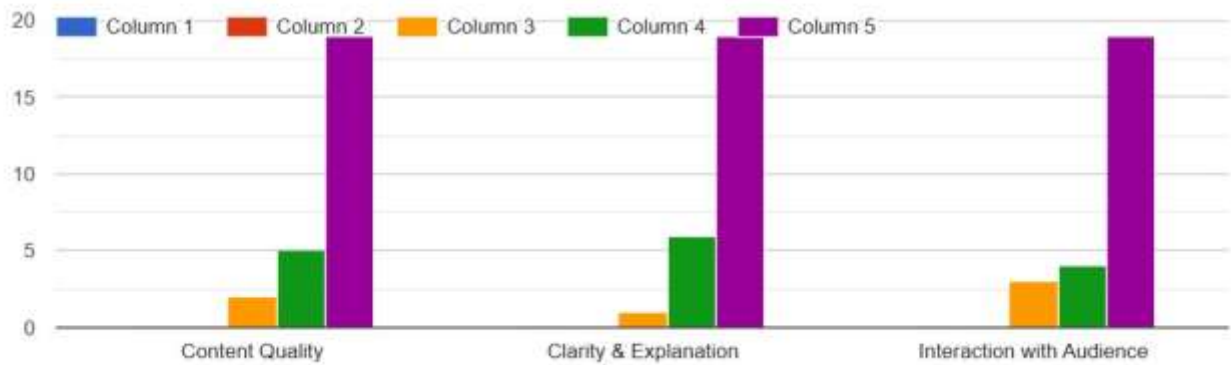
 [Copy chart](#)

26 responses



D. Dr. Shashi Kant

 [Copy chart](#)



3. What new concepts did you learn?

26 responses

MATHEMATICAL APPROACH TOWARDS FORECASTING

How does weather and climate prediction work.

Mathematical modelling , machine learning and artificial intelligence

theory of machine learning

Usefulness of mathematical modelling problem and machine learning theory

Learned how to give better talk on Machine Learning; The domain i wish to nurture in.

Linear Regression, Theoretical ML and atmospheric dynamics.

About machine learning

Concept of Machine Learning and how weather forecasting done.

2. Which session did you find most useful?

26 responses

All

Last session which is about IMD and whether

Dr. Shashi Kant's Weather concepts

Machine Learning and Gradient Descent

Session 1 ,2,4

The session on math behind Machine Learning by Adarsh Barik was the best of all. The speaker conveyed their message with passion. Loved the energy!

Dr. Adarsh Barik

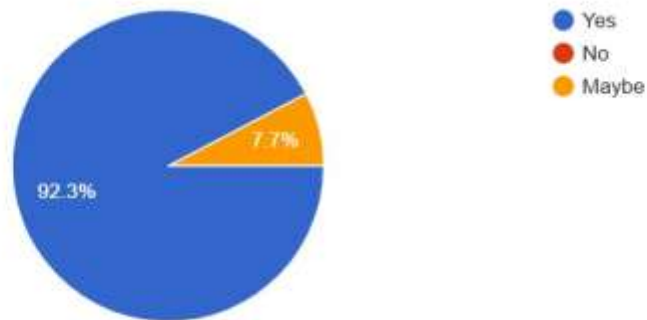
The session by Dr. Adarsh Barik

4th

5. Would you like to attend similar workshops in future?

 [Copy chart](#)

26 responses



4. Suggestions for improvement

26 responses

-
No
No suggestions
NA
none
Overall is good
Kindly host more such events wherein we call professors from IITs and other big tech hubs.
Would more practical application and hands on experience.
The workshop could have extended to 2 days for better organisation

Workshop Completion Certificate:



Tirumala Tirupati Devasthanams

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Sri Venkateswara College

(University of Delhi)

NAAC Grade A+

पूर्णता प्रमाण पत्र

COMPLETION CERTIFICATE

यह प्रमाणित किया जाता है कि एक-दिवसीय शैक्षणिक कार्यशाला, जिसका शीर्षक “मौसम पूर्वानुमान तथा मशीन अधिगम के लिए संख्यात्मक तकनीकें एवं गणितीय मॉडलिंग : एक गणितीय दृष्टिकोण” था, का सफलतापूर्वक आयोजन गणित विभाग, श्री वेंकटेश्वर महाविद्यालय, दिल्ली विश्वविद्यालय द्वारा सोमवार, 9 फरवरी 2026 को प्रातः 9:30 बजे से सायं 5:30 बजे तक संगोष्ठी कक्ष तथा सूचना एवं संचार प्रौद्योगिकी प्रयोगशाला-III में किया गया।

कार्यक्रम की प्रतिवेदन रिपोर्ट अभिलेख हेतु आंतरिक गुणवत्ता आश्वासन प्रकोष्ठ को प्रस्तुत कर दी गई है।

This is to certify that the One-Day Academic Workshop titled “Numerical Techniques and Mathematical Modelling for Weather Forecasting and Machine Learning: A Mathematical Approach” was successfully conducted by the Department of Mathematics, Sri Venkateswara College, University of Delhi, on Monday, 9th February 2026, from 9:30 a.m. to 5:30 p.m. in the Seminar Hall and ICT Lab-III.

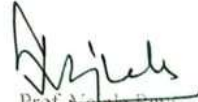
The event report has been submitted to IQAC for record.



Dr. Sudhakar Yadav
(Event-in-Charge)



Prof. Vartika Mathur
(IQAC Coordinator)
Coordinator, IQAC
Sri Venkateswara College
(University of Delhi)
Dhaura Kuan, New Delhi-110021



Prof. Vinayaka Ravi
(Principal)
Principal
श्री वेंकटेश्वर महाविद्यालय
Sri Venkateswara College
धौला कुआँ, नई दिल्ली / Dhaura Kuan, New Delhi-21