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	62	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: IQAC/SVC/2025-26/Mathematics	Criterion No: III & V
Departmental file no: SVC/2025-26/Mathematics	IQAC file No: SVC/2025-26

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 ECA slot!

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: A Mathematical Approach"
4. Nature of Event: Seminar/Conference/Symposium/Workshop/FDP/Public or Community outreach/ Skill enhancement/others (Please specify) titled "Numerical Techniques, Math Modelling for weather forecasting and Machine Learning: A mathematical approach"
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: (1) Dr. Vivek Kumar, Applied Mathematics Department, Delhi Technological University (DTU). (2) Dr. Shashi Kant, Scientist D, National Weather Forecasting Centre (NWFC) (3) ~~[illegible]~~ Dr. Swarnali Majumder, NWFC, (4) Dr. Adarsh Barik, 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): See attachment

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 5PM)

Sudhakar

TIC/Convenor

Date:

For official purpose

Comments (If any) Plz submit previous event report. → No compensatory attendance to students

Criteria 3

For Richa Misra

IQAC Coordinator

Date:

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:


GPS Map Camera
New Delhi, Delhi, India
H5q8+gfh, Dhaula Kuan Enclave I, Dhaula Kuan, New Delhi, Delhi 110021, India
Lat 28.588647° Long 77.166707°
Monday, 09/02/2026 10:28 AM GMT +05:30
Google


GPS Map Camera
New Delhi, Delhi, India
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Lat 28.588629° Long 77.166727°
Monday, 09/02/2026 10:28 AM GMT +05:30
Google


GPS Map Camera
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Google


GPS Map Camera
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Satya Niketan, 18, Benito Juarez Marg, Opposite Venkateswara College, Dhaula Kuan Enclave I, South Moti Bagh, New Delhi, Delhi 110021, India
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Monday, 09/02/2026 10:30 AM GMT +05:30


GPS Map Camera
New Delhi, Delhi, India
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Google


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Google


GPS Map Camera
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Google


New Delhi, Delhi, India
Google


GPS Map Camera
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Monday, 09/02/2026 01:10 PM GMT +05:30
Google


GPS Map Camera
New Delhi, Delhi, India
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Monday, 09/02/2026 11:03 AM GMT +05:30
Google


SRI VENKATESWARA


GPS Map Camera
New Delhi, Delhi, India
Satya Niketan, 18, Benito Juarez Marg, Opposite Venkateswara College, Dhaula Kuan Enclave I, South Moti Bagh, New Delhi, Delhi 110021, India
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Google


GPS Map Camera
New Delhi, Delhi, India
Satya Niketan, 18, Benito Juarez Marg, Opposite Venkateswara College, Dhaula Kuan Enclave I, South Moti Bagh, New Delhi, Delhi 110021, India
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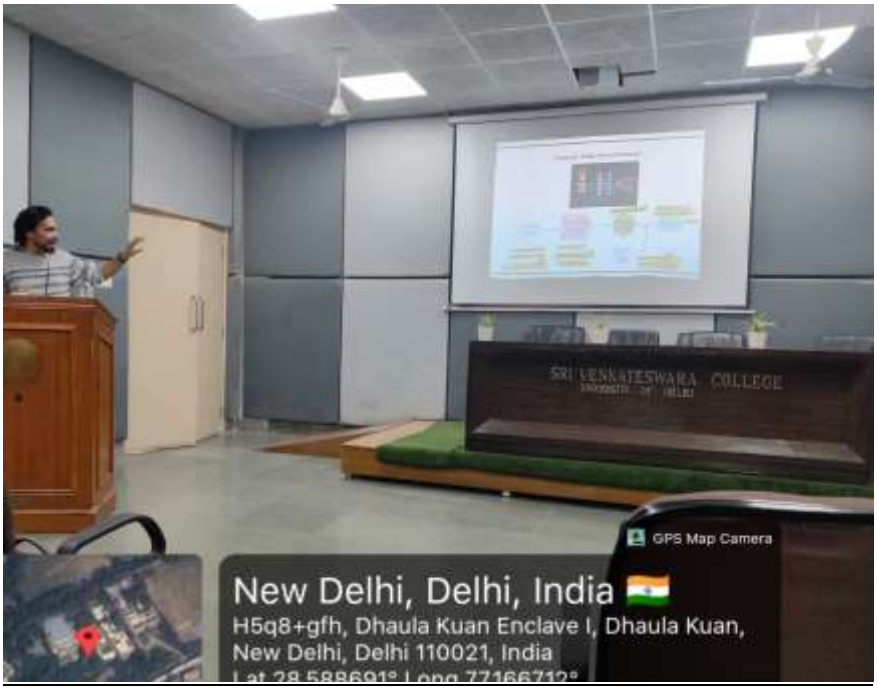
Google


SRI VENKATESWARA COLLEGE
GPS Map Camera
New Delhi, Delhi, India
H5q8+gfh, Dhaula Kuan Enclave I, Dhaula Kuan, New Delhi, Delhi 110021, India


GPS Map Camera
New Delhi,Delhi,India
Benito Juarez Marg, Dhaula Kuan, New Delhi, Delhi 110021, India
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Monday, 09/02/2026 02:48 PM GMT+05:30
Note : Captured by GPS Map Camera


GPS Map Camera
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Dhaula Kuan, New Delhi, Delhi 110021, India
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Note : Captured by GPS Map Camera


GPS Map Camera
New Delhi,Delhi,India
Dhaula 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:

34.	Prathom Kumar	1724139	B.Sc(H)Maths 2nd year	Prathom	Prathom		
35.	Arun Yadav	1724016	B.Sc(H)Math 2nd Yr	Arun	Arun	Arun	Arun
36.	Shubham Kumar	1724077	BSc(H)Maths IInd Year	Shubham	Shubham	Shubham	Shubham
37.	Vansh	1724013	B.Sc.(H) Maths IInd Year (IV sem)	Vansh	Vansh	Vansh	Vansh
38	Kirti	1722050	BSc(H) Maths 4th Year	Kirti	Kirti	Kirti	Kirti
39	Ahana	1722133	BSc(H) Maths 4th year	[illegible]	[illegible]	[illegible]	[illegible]
40.	Pragya Niman	1724008	B.Sc (H) Maths 2nd Year	Pragya	Pragya		
41.	Yogesh Kumari	1724029	B.Sc (H) Maths 2nd Year	Yogesh	Yogesh		
42.	Pragati Takkar	1724042	BSc(H) Maths 2nd Year	PS	PS	PS	
43.	Gurrampati Poojitha	1724081	BSc(H) Maths 2nd Year	[illegible]	[illegible]		
44	Anisha Sahu	1724021	BSc (H) Maths 2nd Year	Anisha	Anisha	Anisha	Anisha
45.	Tushti	1724012	BSc(H) Maths 2nd Year	Tushti	Tushti	Tushti	Tushti
46.	Baldev Choudhary	1724036	—	Baldev	Baldev	Baldev	Baldev
47.	Vansh Yadav	1725088	BSc (H) Maths 1st yr	Vansh	Vansh	Vansh	Vansh
48.	Himanshu Beniwal	1725108	"	Him	Him	Him	Him
49.	Ayaan	1725126	"	Ayaan	Ayaan	Ayaan	Ayaan
50.	Prerna	1725103	"	Prerna	Prerna	Prerna	Prerna

Kanak Kachhot	1823002	BSc Physics(H)	[illegible]	[illegible]	[illegible]
Unnati Malik	1823702	BSc Physics (H)	Sakshi	Sakshi	Sakshi
Priyanshu Sharma	1823062	BSc (H) Physics	Priyanshu	Priyanshu	Priyanshu

13	Ayush Jethwala	1722019	BSc (H) Maths 4th year	Ayush	Ayush	Ayush	Ayush	Ayush J.
14	Sadhna	1723902	BSC (H) Maths 3rd year					Sadhna
15	Suhani	1723904	" 3rd year					Suhani
16	Anshi	1723906	" 3rd year					Anshi
17	Vaibhav Bindu	1723092	.. 3rd year					Vaibhav Bindu
18	Gagandeep	1723132	.. 3rd yr					Gagandeep
19	Shivam Yadav	0323012	BA (H) Hindi 1st Year	Shivam	Shivam	Shivam		Shivam
20	Grace	1422058	B.Sc (H) Botany 4th Yr	Grace	Grace	Grace		Grace
21	Chhavi Kakkar	1723029	B.Sc (H) Maths	Chhavi	Chhavi	Chhavi		Chhavi
22	Vedika Gupta	1723022	"					Vedika
23	Tanishka Chaudhary	1724132	B.Sc (H) 2nd yr Maths	[illegible]				
24	Shahan Mansoor	1724136	B.Sc (H) 2nd Yr	[illegible]				
25	Dakshika Pandey	1724127	" "	[illegible]				
26	Khushi Saigal	1724091	" "	[illegible]				
27	Prashant	1724126	"	Prashant				
28	Tanveen Kaur	1724905	BSc Maths 2nd Yr	Tanveen				
29	Samyukta Singpal	1724904	BSc Math 2nd Yr	Samyukta				
30	Dhruv	1724100	BSc Math 2nd Yr	Dhruv				
31	Aditya Raj	1724187	BSc Maths 2nd Yr	[illegible]				
32	Naivedya	1722102	4th year	Naivedya				
33	Ayushmaan	1722070	4th year	Ayushmaan				

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
	1724025	Sachin chhokar	BSc(H) Maths					
	1724047	Arpit Singh	BSc(H) Maths					
1	1723067	Yatin Sood	B.Sc.(H) Mathematics					
2	1728054	Divya Yadav	B.Sc.(H) Mathematics					
3	1722033	Vishal Yadav	B.Sc (H) Mathematics (3rd Year)					
4	1725137	Harsh Panwar	BSc (H) Maths (I st Year)					
5	1725142	Rakesh Kumawat	BSc(H) maths 1st year					
6	1725103	Prince	BSc(H) Maths IInd Year					
7	1725150	Aryan Kaushal	BSc(H) Maths 1st year					
8	1725104	Dindayal	11					
9	1725144	Mustakidhar	11					
10	1722006	Prateek	Bsc (H) Maths 4th year					
11	1722055	Dev Kumar Sahu	11					
12	1722039	Aditya Rajpal	11					
	1725149	Hayank Khanijau	BSc (H) Maths 1st year					
	1725123	Bhoomika	11					
	1725122	Riddhisha	11					
	1725138	Kriti Gupta	BSc(H) Maths					
	1725083	Deeksha	BSc(H) Maths					
	1725111	Riya	BSc(H) Maths					

13								
14	1724025	Sachin chhokar	BSc(H) Maths					
15	1725126	Aryan	BSc 11					
	1725121	Aaryan	11					
16	Arpit	Trishar	11					
17	1725088	Vansh Yadav	BSc(H) Maths 1st year					
18	1724053	Manny Kumar	BSc(H) Maths 2nd year					
19	1724077	Shubham Kumar	BSc(H) Maths					
20	1722102	Naivedya Kishor Singh	BSc(H) Maths					
21	1722070	AYUSHMAAN	BSc.(H) Maths IIIrd YEAR					
22	1722039	Aditya Rajpal	11					
23	~~1722006~~	Prateek	11					
24	1722055	Dev Kumar Sahu	11					
25	1722019	Ayush Jakhmola	11					
26	1722132	Menuka	11					

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 Pavitha	BSc(H) Mathematics					
2	1724008	Ragya Nirmal	B.Sc. (H) Mathematics					
3	1724029	Yogesh Kumari	B.Sc. (H) Mathematics	Yogesh	Yogesh	Yogesh	Yogesh	Yogesh
4	0325012	Shivam Yadav	BA (H) Hindi	Shivam	Shivam	Shivam	Shivam	Shivam
5	1725108	Himanshu Beniwal	B.Sc. (H) Mathematics	Himanshu	Himanshu	Himanshu	Himanshu	Himanshu
6	1724139	Pratham Kundu	B.Sc.(H) Mathematics	Pratham	Pratham	Pratham	Pratham	Pratham
7	1725103	Prince	Bsc(H) Mathematics	Prince	Prince	Prince	Prince	Prince
8	1724042	PRAGATI TAKKAR	B.Sc (H) MATHEMATICS	Pragati	Pragati	Pragati	Pragati	Pragati
9	1722133	Aheva Shikha	Bsc (H) Mathematics					
10	1724021	Anisha Sahu	BSc (H) Mathematics	Anisha	Anisha	Anisha	Anisha	Anisha
11	1724012	Tushti	B.Sc(H) Mathematics	Tushti	Tushti	Tushti	Tushti	Tushti

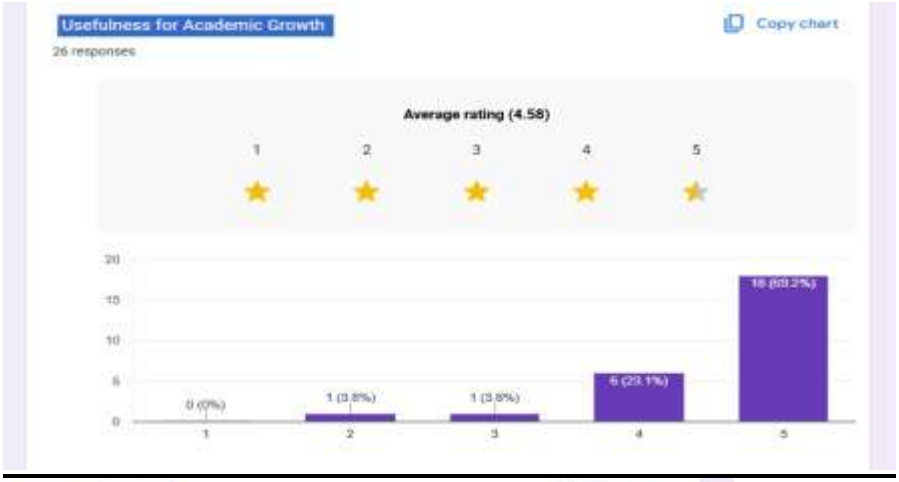
Attendance Sheet – One-Day Academic Workshop
"Numerical Techniques, Mathematical Modelling for Weather Forecasting and Machine Learning: A Mathematical Approach"
Department: Mathematics | **Date:** 09.02.2026 | **Venue:** Sri Venkateswara College, University of Delhi

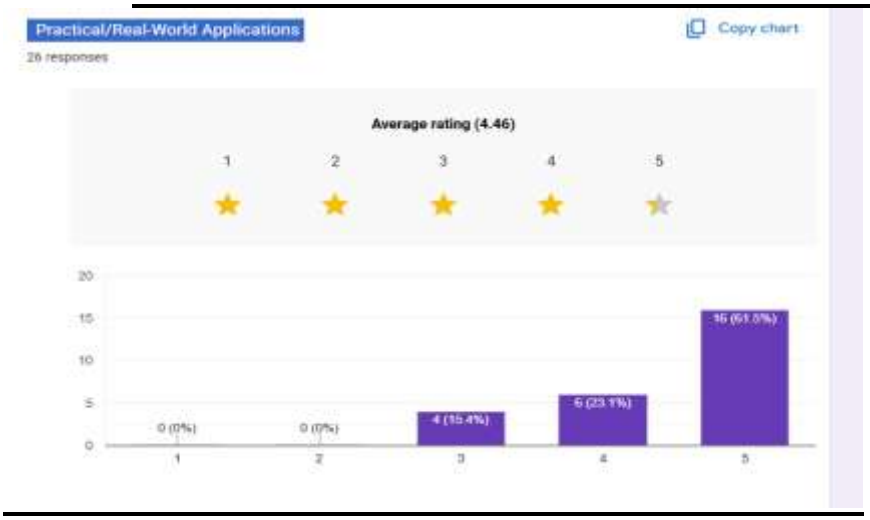
S. No.	Roll No.	Full Name	Course / Program	Session–I	Session–II	Session–III	Session–IV	Signature
1	1724016	Arun Yadav	BSc(H) Maths					
2	1724069	Narendra Ambara	Bsc (H) Maths					
3	1824042	Dheerendra R	BSc(H) Phy					
4	1824031	Rudrendra Pal	BSc (H) Physics					
5	1724047	Anpit Singh	B Sc(H) Maths	Anpit	Anpit	Anpit	Anpit	Anpit
6	1823902	Shiksha	B.Sc (H) Physics	Salik	Salik	Salik	Salik	Salik
7	1823002	Kanak Kachhot	BSc (H) Physics					
8	1722083	Akash	B.Sc(H) Maths					
9	1722050	Kat Dalal	Bsc (H) Maths					
10	172203	Siddharth	BSc (H) Maths					
11	1722032	Tanya	Bsc (H) Maths	Tanya	Tanya	Tanya	Tanya	Tanya
12	1725074	Gaurav	Bsc (H) Maths	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav

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&ouid=114747216437090745284&rtpof=true&sd=true





Subject Expertise of Speakers

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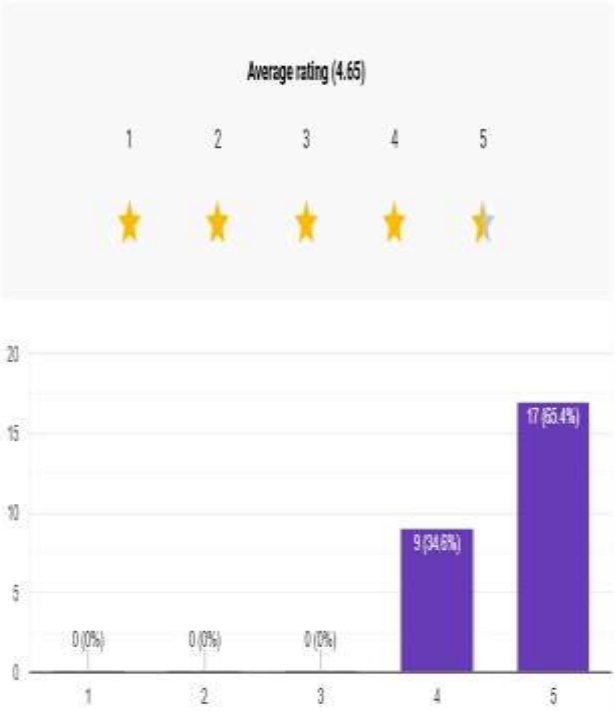
26 responses



Clarity of Presentations

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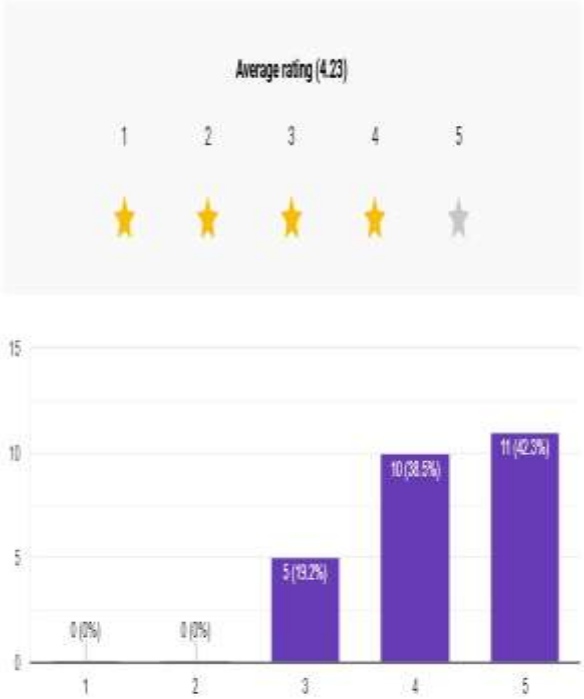
26 responses



Relevance of Topics

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Speaker-Specific Feedback

A. Dr. Vivek Kumar Aggarwal

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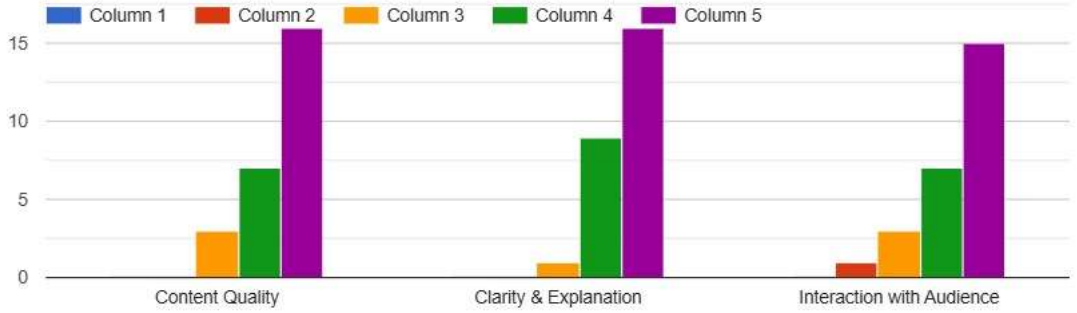

Overall Organization

25 responses

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C. Dr. Swarnali Majumder

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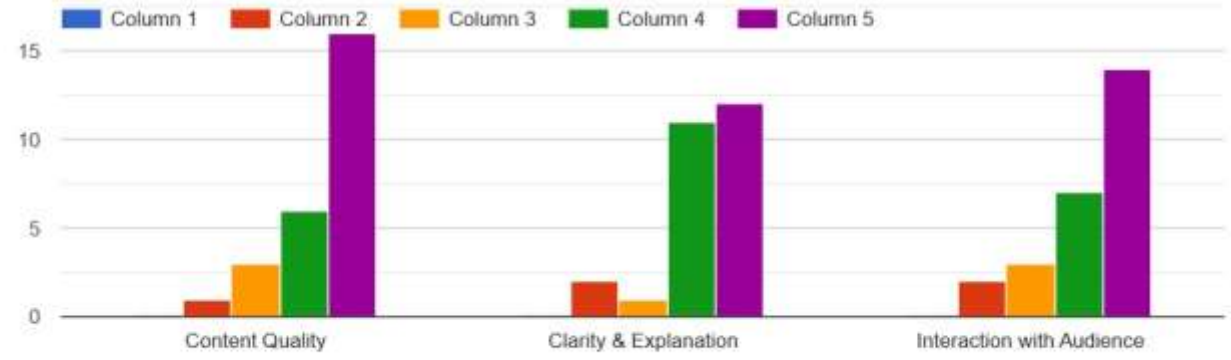

B. Dr. Adarsh Barik

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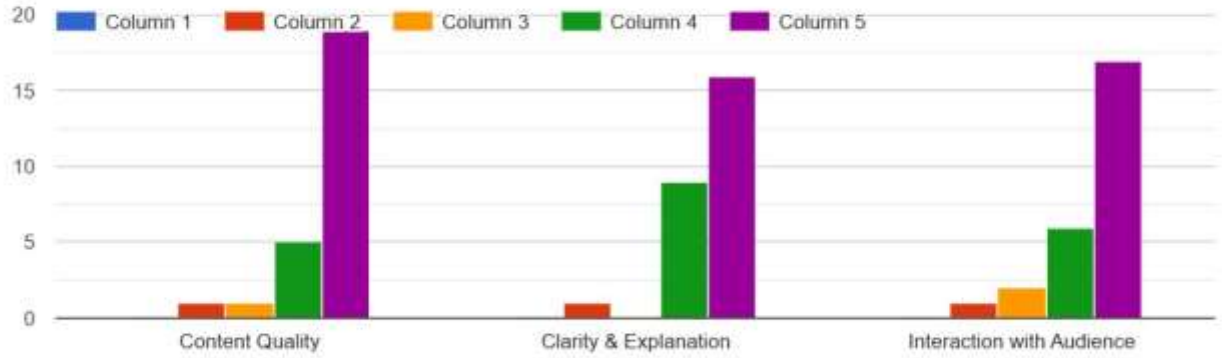
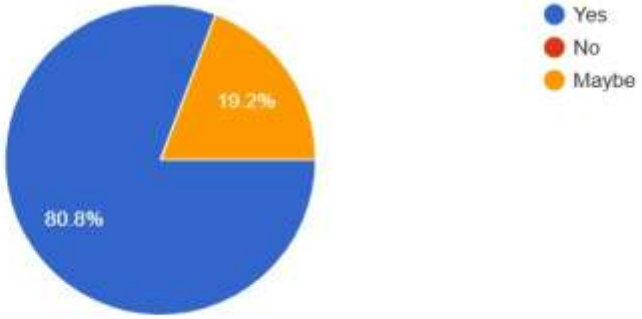


1. Did the workshop meet your expectations?

Copy chart

26 responses



D. Dr. Shashi Kant

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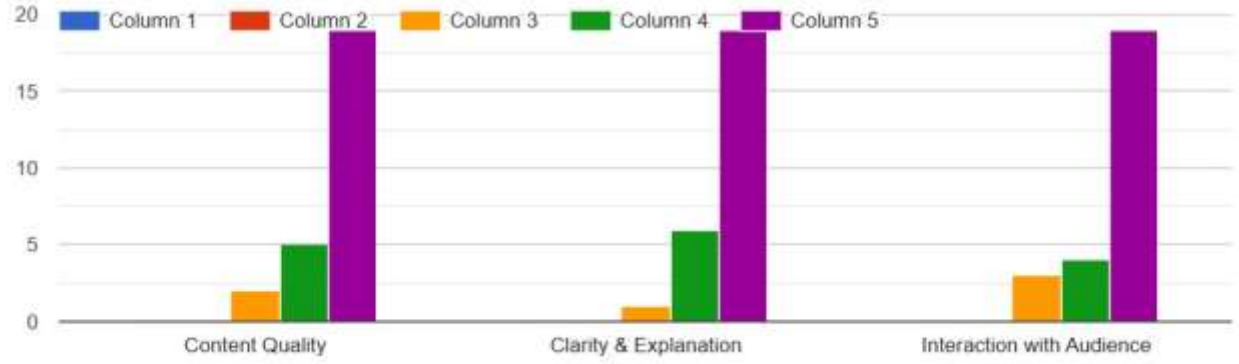


3. What new concepts did you learn?

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

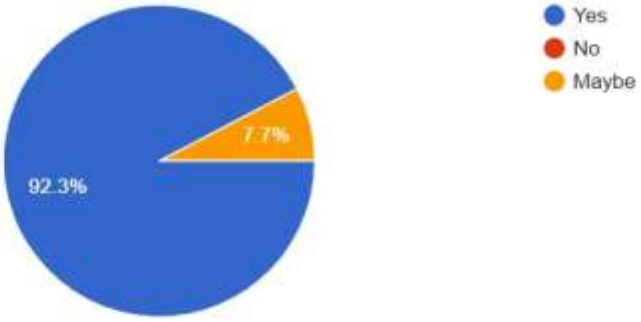
The session by Dr. Adarsh Barik

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
శ్రీ వేంకటేశ్వర కళాశాల
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.

Sudhakar

Dr. Sudhakar Yadav
(Event-in-Charge)

Vartika Mathur

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

Prof. Vijaya Rao
(Principal)
प्राचार्य
Principal
श्री वेंकटेश्वर महाविद्यालय
Sri Venkateswara College
धौला कुआँ, नई दिल्ली / Dhaula Kuan, New Delhi-21