SRI DURGA MALLESWARA

SIDDHARTHA MAHILA KALASALA

An Autonomous College in the Jurisdiction of Krishna University

ISO Certified Institution

Sponsors: SIDDHARTHA ACADEMY OF GENERAL AND TECHNICAL EDUCATION

In Celebration of the GOLDEN JUBLIEE of Siddhartha Academy of General & Technical Education(1975-2025)

Report on Online National Seminar Commemorating National Mathematics Day on "Gulliver's Travels: Meeting the Giants and the Lilliputians in the Number World"

Organized by

Department of Mathematics

Day & Date: Friday 19-12-2025

Venue: E-Classroom

Time: 10:30AM-12.30PM

PARTICIPANTS: Students of II B.Sc Honours Mathematics and III B.Sc Honours Mathematics

RESOURCE PERSON: DR. S. DURGA BHAVANI

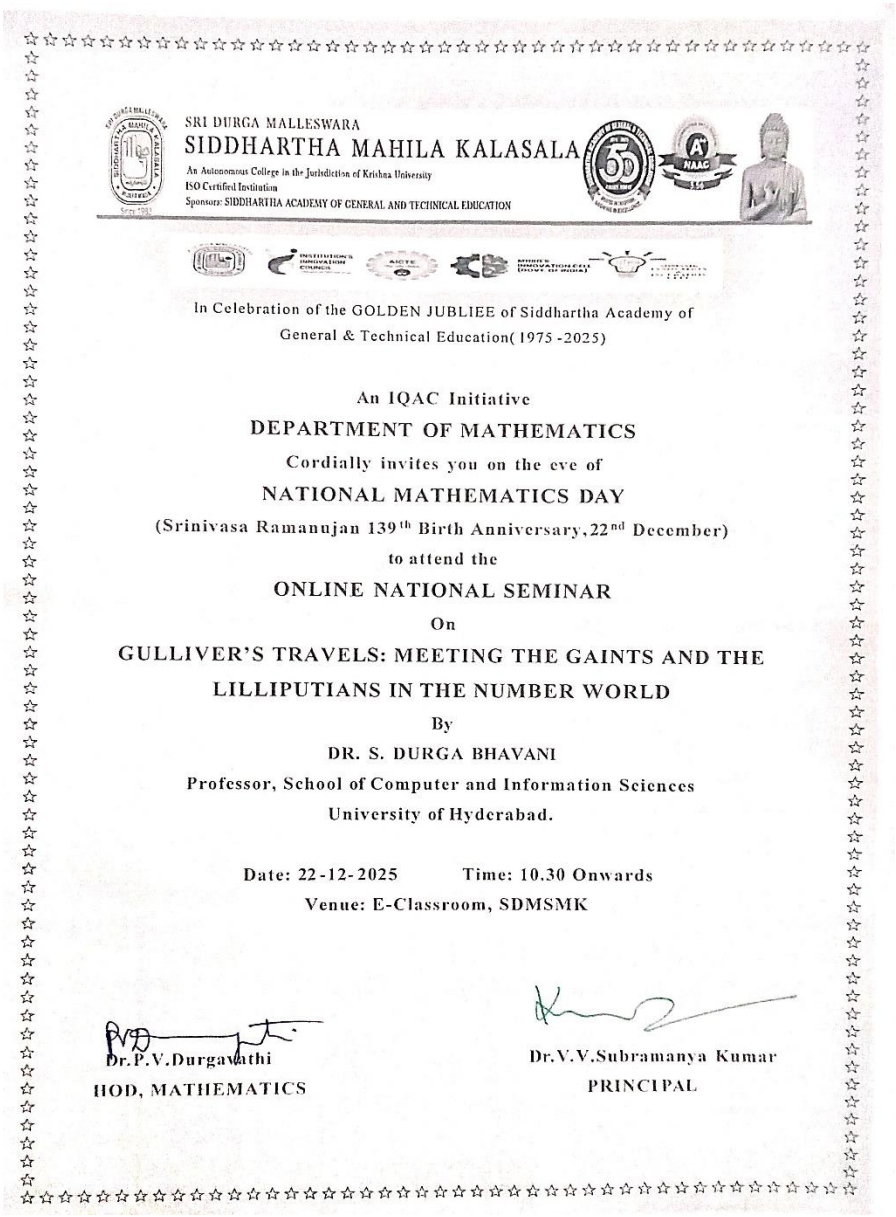
Professor,

School of Computer and Information Sciences

University of Hyderabad,

Hyderabad.

INVITATION:



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In Celebration of the GOLDEN JUBLIEE of Siddhartha Academy of General & Technical Education(1975 -2025)

An IQAC Initiative

DEPARTMENT OF MATHEMATICS

Cordially invites you on the eve of

NATIONAL MATHEMATICS DAY

(Srinivasa Ramanujan 139th Birth Anniversary, 22nd December)

to attend the

ONLINE NATIONAL SEMINAR

On

GULLIVER'S TRAVELS: MEETING THE GAINTS AND THE LILLIPUTIANS IN THE NUMBER WORLD

By

DR. S. DURGA BHAVANI

Professor, School of Computer and Information Sciences

University of Hyderabad.

Date: 22-12-2025 Time: 10.30 Onwards

Venue: E-Classroom, SDMSMK

Dr.P.V.Durgavathi
HOD, MATHEMATICS

Dr.V.V.Subramanya Kumar
PRINCIPAL

PROGRAMME SHEET

10.00AM - 10.30AM: lighting of the lamp before the portrait of Srinivasa Ramanujan

10.30AM - 10.35AM: Address by Principal

10.35AM - 10.40AM: Address by HOD

10.40AM - 10.45AM: Introducing the Resource Person

10.45AM - 12.25PM: Session by Resource Person

12.25PM - 12.30PM: Vote of thanks

OBJECTIVE:

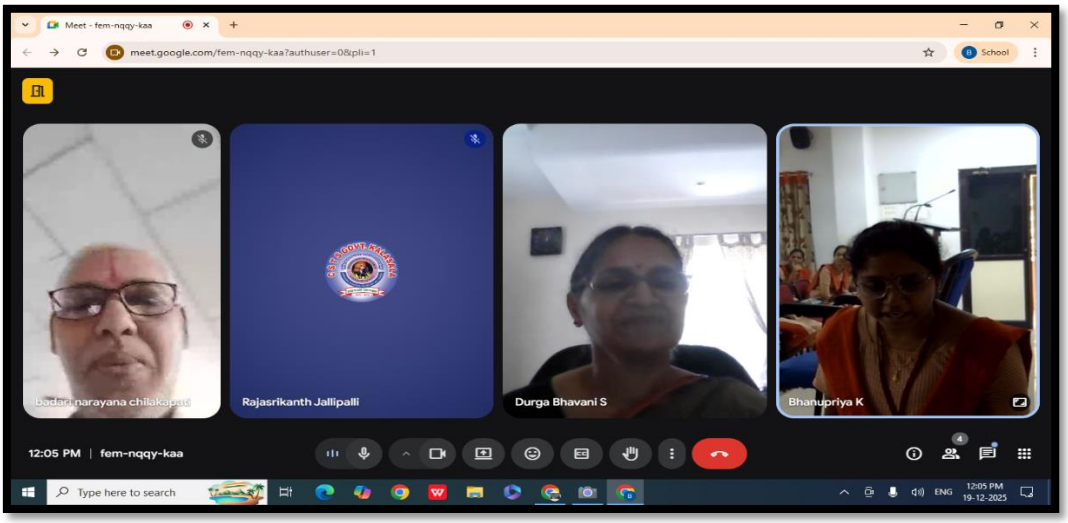
- To commemorate National Mathematics Day and honor the 139th Birth Anniversary of Srinivasa Ramanujan by highlighting the beauty and relevance of mathematics.
- To create awareness among students about the presence of mathematics in everyday life, algorithms, and problem-solving techniques.
- To motivate students to develop logical thinking and analytical skills through interactive discussions and puzzles.

WORKSHOP HIGHLIGHTS

The Department of Mathematics, SDMSMK, organized an Online National Seminar titled “Gulliver’s Travels: Meeting the Giants and the Lilliputians in the Number World” on 19.12.2025, on the eve of National Mathematics Day, in celebration of the 139th Birth Anniversary of Srinivasa Ramanujan (22nd December). The seminar was delivered by Dr.S. Durga Bhavani, Professor, University of Hyderabad. Faculty members and students actively attended the programme.

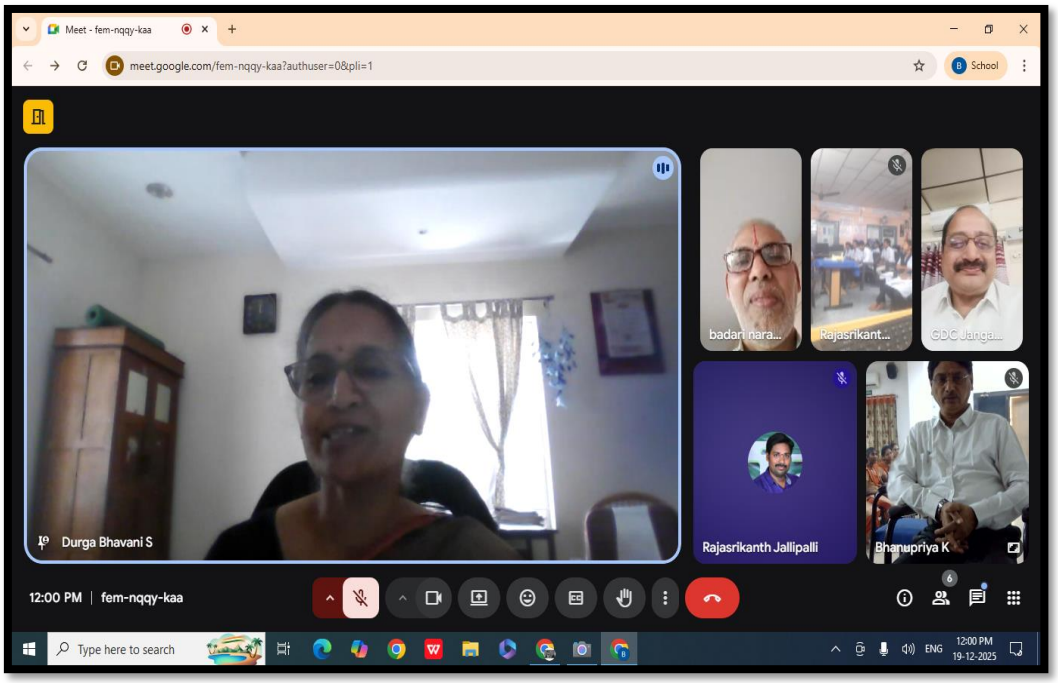
The programme began with the lighting of the lamp before the portrait of Srinivasa Ramanujan, symbolizing the pursuit of knowledge and paying tribute to the legendary mathematician on the occasion of his birth anniversary.

WELCOMING THE RESOURCE PERSON



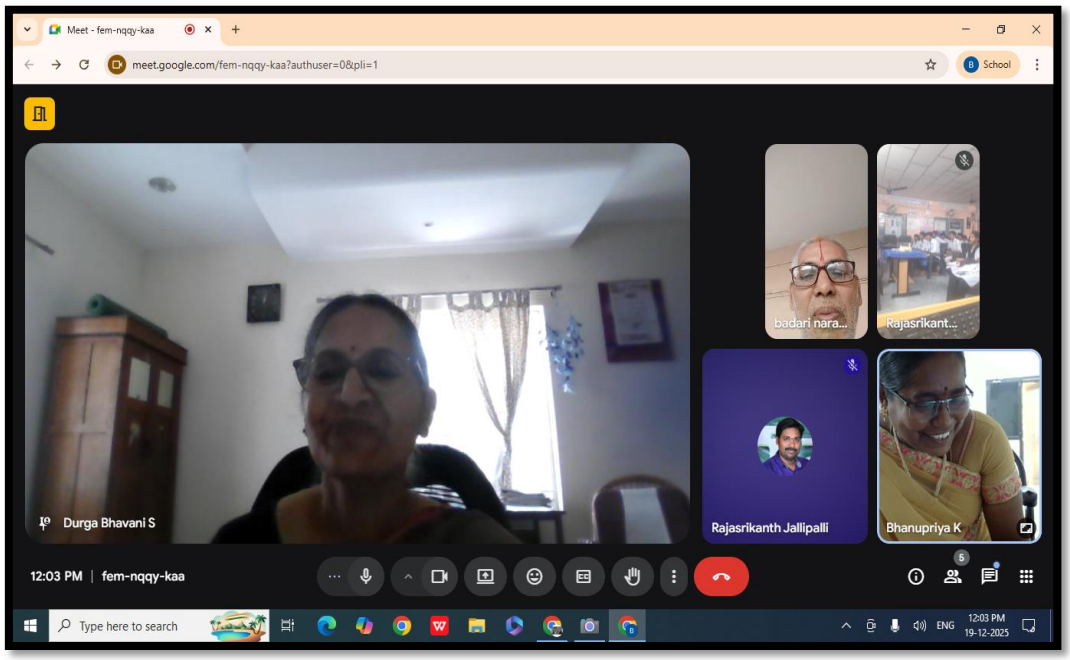
PRINCIPAL OPENING REMARKS

The Principal addressed the gathering and spoke about Srinivasa Ramanujan's early life, his passion for mathematics, and his remarkable journey as a self-taught mathematician. The Principal highlighted Ramanujan's famous correspondence with G. H. Hardy and mentioned the well-known Hardy–Ramanujan number 1729, emphasizing Ramanujan's extraordinary intuition and contribution to number theory.



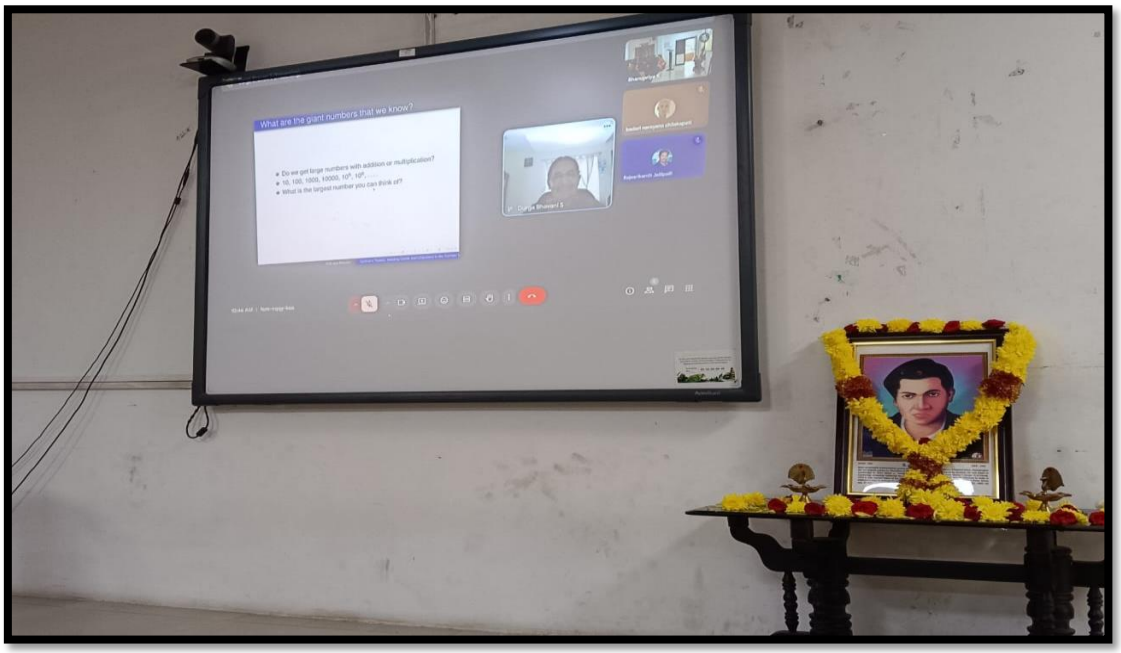
ADDRESSING THE GATHERING BY HOD

The Head of the Department of Mathematics addressed the gathering and highlighted Ramanujan's key contributions to mathematics, including number theory, infinite series, and continued fractions. Madam also emphasized his lasting legacy, which continues to inspire mathematicians and students across generations.



RESOURCE PERSON TALK

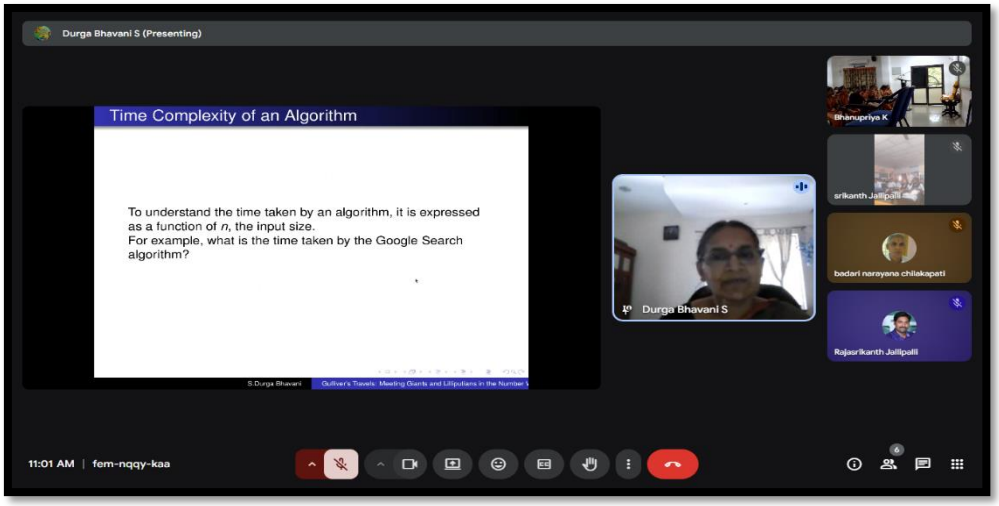
The technical session was handled by Dr.S.Durga Bhavani, Professor, University of Hyderabad, who delivered an engaging and insightful lecture on the seminar theme.

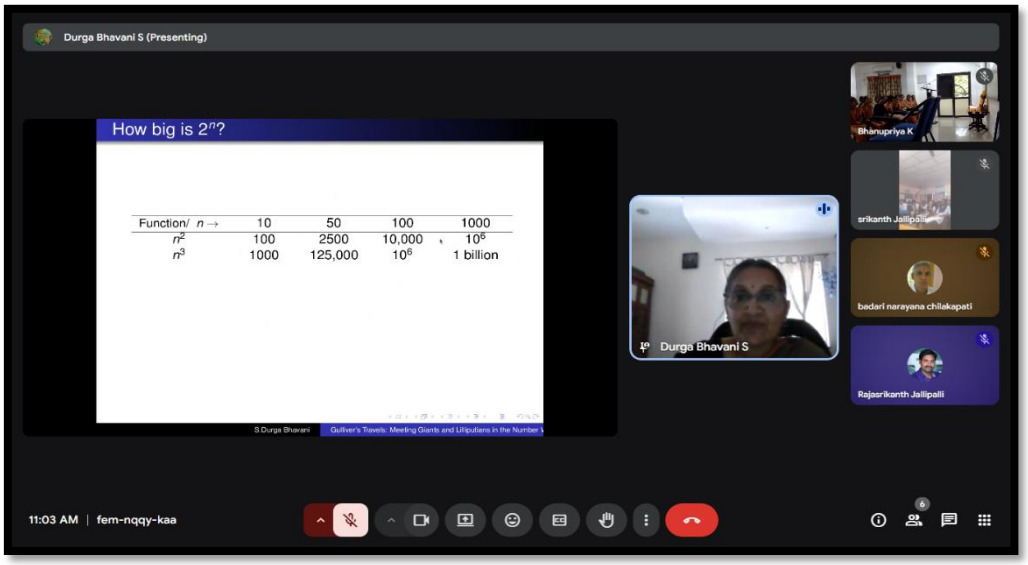


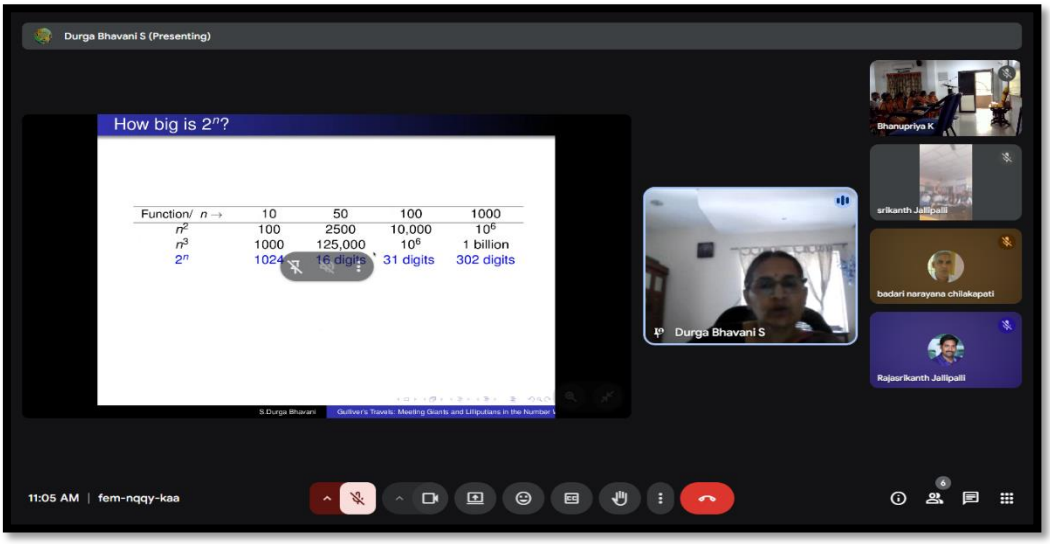
KEY POINTS COVERED:

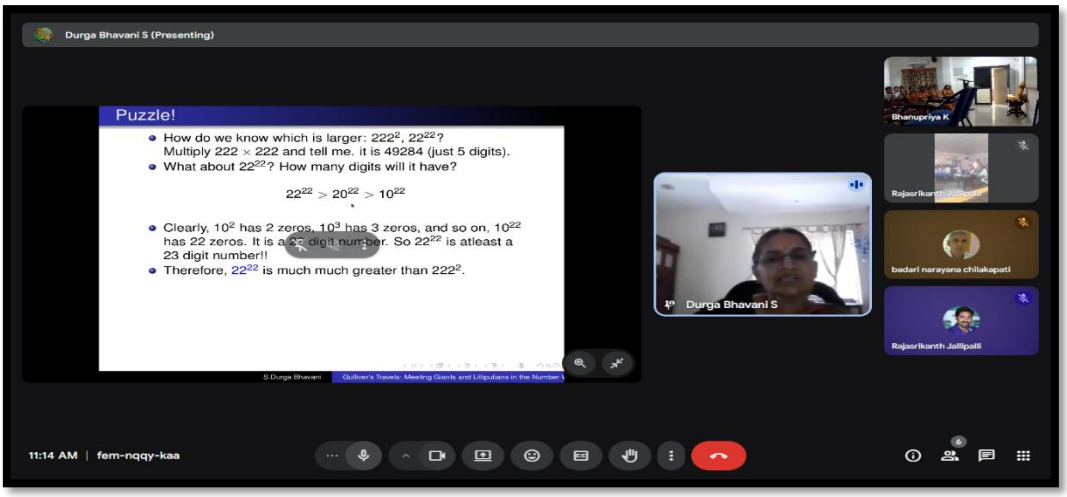
The key points covered during the session included:

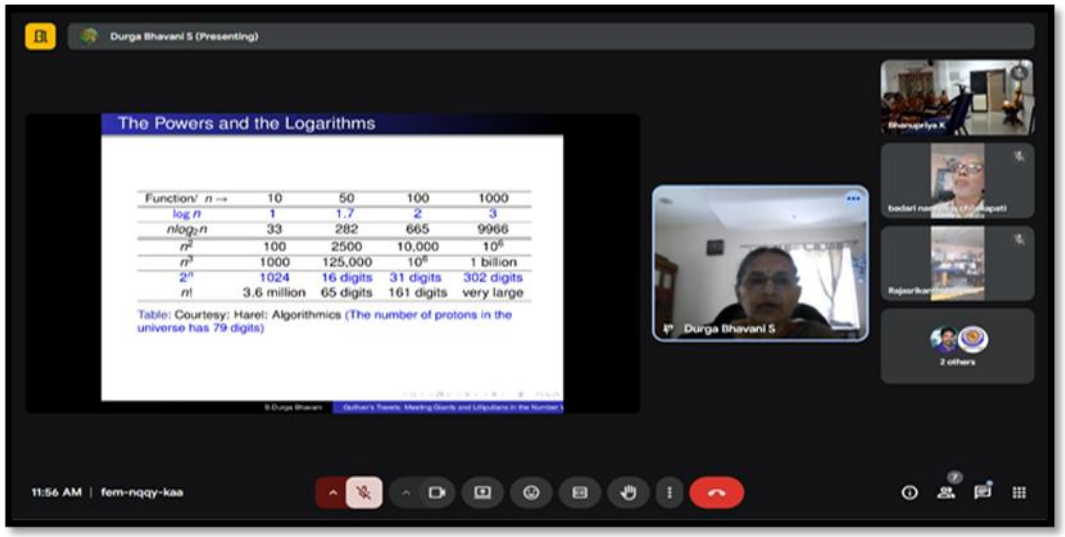
- Identifying mathematics in everyday life and real-world situations
- Understanding the growth of numbers through how big is 2^n
- Thought-provoking puzzles such as “Make the largest number using four 2’s”
- Introduction to the time complexity of algorithms
- Relationship between powers and algorithms
- Explanation of binary search and its efficiency
- Mathematical interpretation of Gulliver’s Travels
- Conceptual understanding of Giants and Lilliputians in the Number World

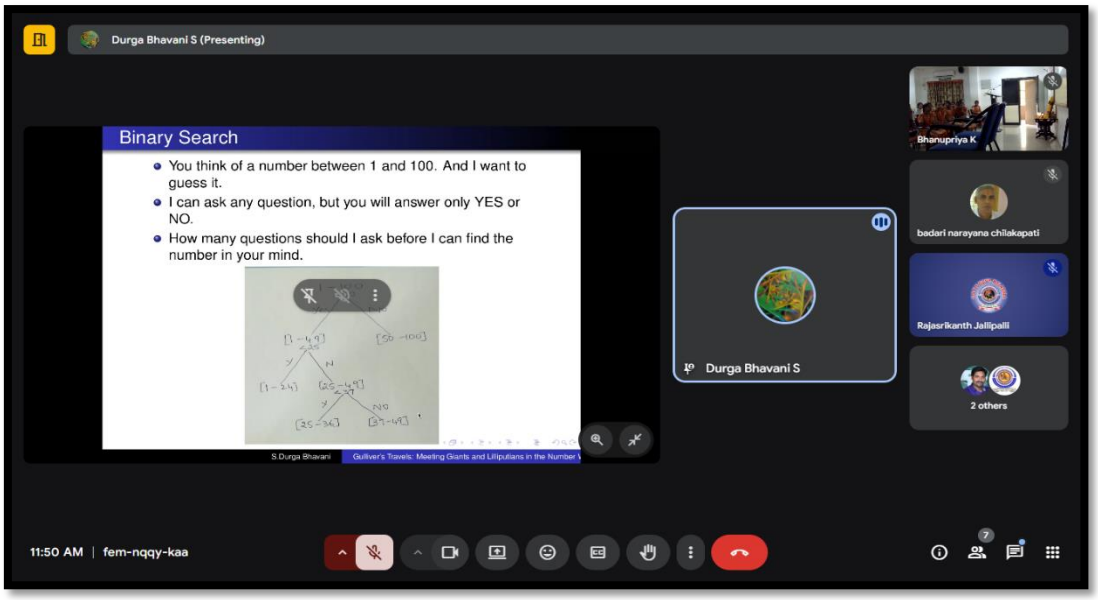





Durga Bhavani S (Presenting)
How big is 2^n?
Function/ $n \rightarrow$ 10 50 100 1000
n^2 100 2500 10,000 10^6
n^3 1000 125,000 10^6 1 billion
2^n 1024 16 digits 31 digits 302 digits
Bhanupriya K
srikanth Jallipalli
badari narayana chilakapati
Rajasrikanth Jallipalli
Durga Bhavani S
11:05 AM | fem-nqqy-kaa


Durga Bhavani S (Presenting)
Puzzle!
How do we know which is larger: 222^2, 22^{22}?
Multiply 222 × 222 and tell me. it is 49284 (just 5 digits).
What about 22^{22}? How many digits will it have?
$22^{22} > 20^{22} > 10^{22}$
Clearly, 10^2 has 2 zeros, 10^3 has 3 zeros, and so on, 10^{22} has 22 zeros. It is a 23 digit number. So 22^{22} is atleast a 23 digit number!!
Therefore, 22^{22} is much much greater than 222^2.
Bhanupriya K
Rajasrikanth Jallipalli
badari narayana chilakapati
Rajasrikanth Jallipalli
Durga Bhavani S
11:14 AM | fem-nqqy-kaa


Durga Bhavani S (Presenting)
The Powers and the Logarithms
Function/ $n \rightarrow$ 10 50 100 1000
$\log n$ 1 1.7 2 3
$n \log_2 n$ 33 282 665 9966
n^2 100 2500 10,000 10^6
n^3 1000 125,000 10^6 1 billion
2^n 1024 16 digits 31 digits 302 digits
$n!$ 3.6 million 65 digits 161 digits very large
Table: Courtesy: Harel: Algorithmics (The number of protons in the universe has 79 digits)
Bhanupriya K
Rajasrikanth Jallipalli
2 others
Durga Bhavani S
11:56 AM | fem-nqqy-kaa

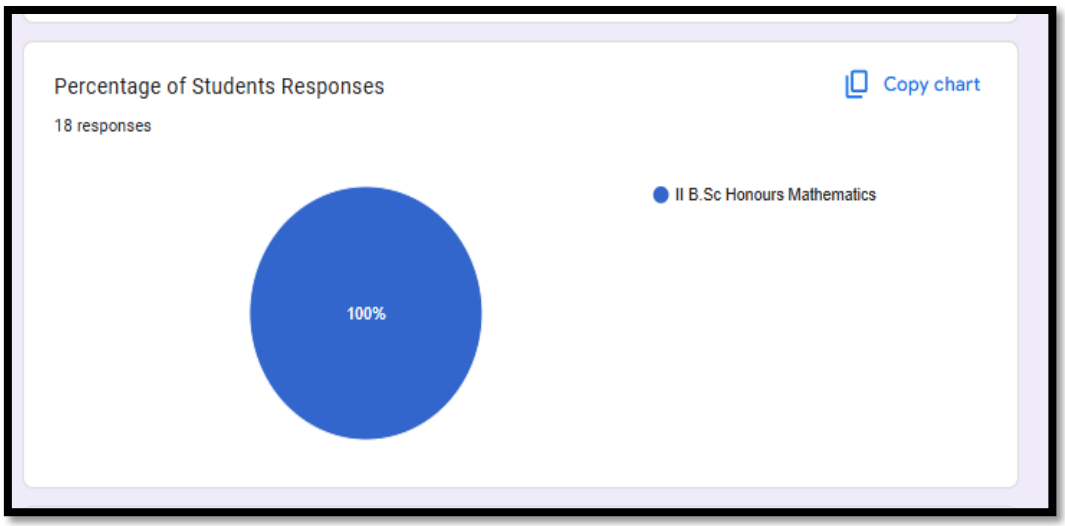


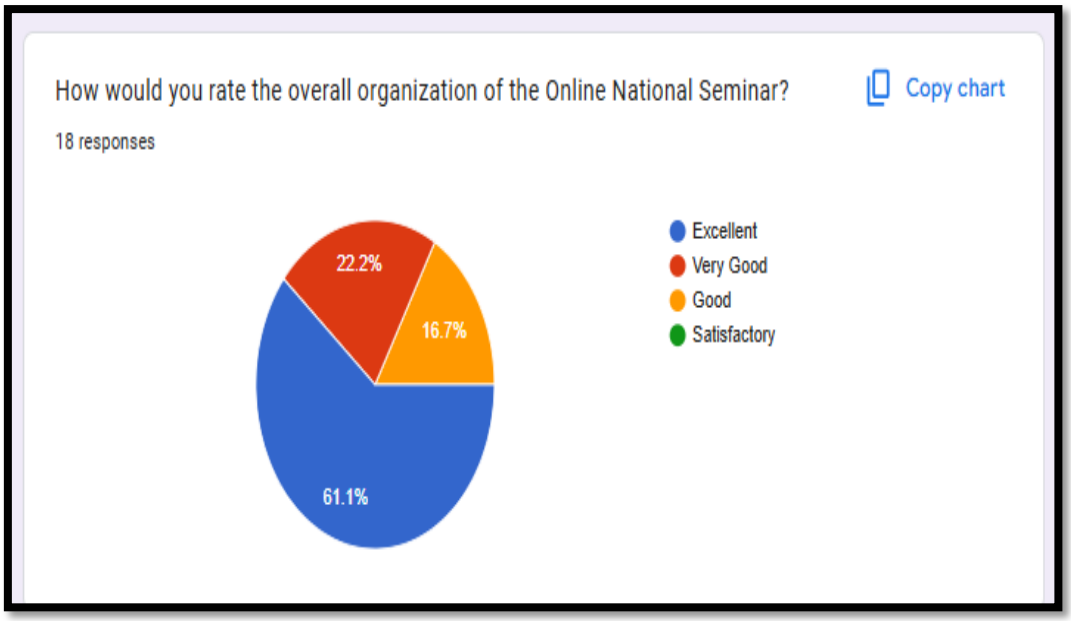
CONCLUSION: The seminar concluded with a deeper appreciation of how mathematics connects imagination, logic, and real-world applications. The theme effectively demonstrated the contrast between large and small numbers and their significance in computational thinking.

OUTCOME: Students gained enhanced insight into number systems, algorithms, and problem-solving techniques. The seminar fostered critical thinking and analytical skills among participants. It inspired students to

explore mathematics beyond textbooks and recognize its relevance in daily life and technology. The programme successfully commemorated National Mathematics Day by honouring the legacy of Srinivasa Ramanujan in a meaningful way.

FEEDBACK FROM STUDENTS

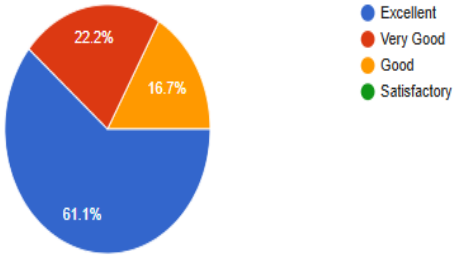




How informative and engaging was the resource person's talk on the seminar theme?

Copy chart

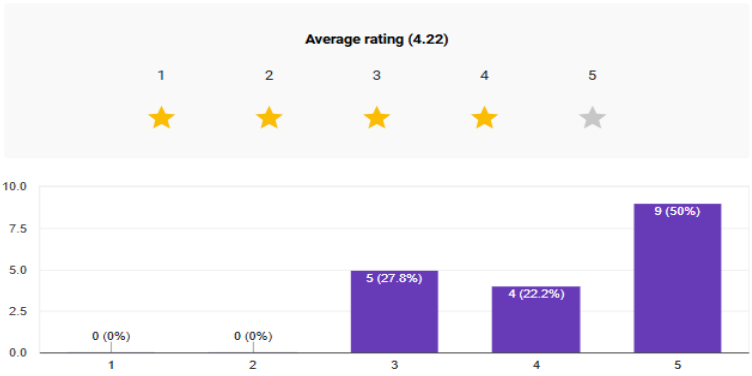
18 responses



To what extent did the seminar enhance your understanding of mathematics and its real-life applications?

Copy chart

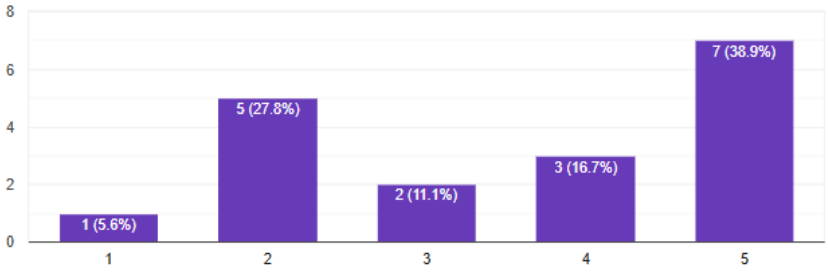
18 responses



How relevant was the seminar content to your academic curriculum and interests?

Copy chart

18 responses



ATTENDANCE SHEET

ATTENDANCE SHEET

DEPARTMENT OF MATHEMATICS

Online National Seminar Commemorating National Mathematics Day on "Gulliver's Travels: Meeting the Giants and the Lilliputians in the Number World"

Resource Person: DR. S. DURGA BHAVANI
Professor,
School of Computer and Information Sciences
University of Hyderabad,Hyderabad.

DATE:19.12.2025(FRIDAY) TIME:10.30AM-12.30PM

S.NO	ROLL NO	CLASS	STUDENT NAME	STUDENT SIGNATURE
1.	243131S	II Bsc maths	Andol Prerona	Andol Prerona
2	243132S	II Bsc Maths	B. Mohitha	B. Mohitha
3.	243133S	II Bsc Maths	B. Deepika	B. Deepika
4.	243134S	II nd Bsc-Maths	ch. Mamatha	ch. Mamatha
5.	243135S	II nd Bsc-Maths	D. Harika	D. Harika
6.	243137S	II nd Bsc-Maths	D. Mastanamma	D. Mastanamma
7.	243139S	II nd Bsc maths	G. mahalakshmi	G. mahalakshmi
8.	243140S	II nd Bsc Maths	T. Sirisha	T. Sirisha
9.	243141S	II nd Bsc Maths	J. Anusha	J. Anusha
10.	243143S	II Bsc Maths	K. Naga Sukanya	K. Naga Sukanya
11.	243144S	II Bsc Maths	M. Bhavani	M. Bhavani
12.	243145S	II Bsc Maths	M. prathyusha	M. prathyusha
13.	243146S	II Bsc Maths	M. Ramya sri	M. Ramya sri
14.	243147S	II Bsc maths	Md. Zafarunnisa	Md. Zafarunnisa
15.	243148S	II Bsc Maths	M. Amrutha	M. Amrutha.
16.	243149S	II Bsc Maths	P. Bharathi	P. Bharathi
17.	243150S	II Bsc Maths	P. Teja sri	P. Teja sri
18.	243151S	II Bsc Maths	S. pavani	S. Pavani
19.	243153S	II Bsc maths	S. vaishnavi	S. vaishnavi
20.	243155S	II Bsc maths	V. Jaya sree	V. Jaya sree
21.	243156S	II nd Bsc-Maths	V. Naga vyshnavi	V. Naga vyshnavi
22.	233101S	III Bsc maths	D. Sravani	D. Sravani
23.	233102S	III Bsc maths	K. Aruna	K. Aruna
24.	233103S	III Bsc maths	Md. Ramejunisa	Md. Ramejunisa
25.	233104S	III Bsc maths	N. Jyothi	N. Jyothi
26.	233131S	III Bsc maths	A. Sravanthi	A. Sravanthi
27.	233133S	III Bsc maths	B. Gayathri	B. Gayathri
28.	233134S	III Bsc maths	ch. Uma	ch. Uma
29.	233135S	III Bsc maths	F. Bhavya Sri	F. Bhavya Sri
30.	233136S	III Bsc maths	G. kalyani	G. kalyani
31.	233137S	III Bsc maths	G. Ananya	G. Ananya
32.	233138S	III Bsc maths	I. Dilleswari	I. Dilleswari
33.	233139S	III Bsc maths	K. Himavathi	K. Himavathi
34.	233140S	III Bsc maths	K. Hymavathi	K. Hymavathi
35.	233142S	III Bsc maths	L. Anusha	L. Anusha
36.	233144S	III Bsc maths	N. Malavika	N. Malavika
37.	233145S	III Bsc maths	N. Rupika	N. Rupika
38.	233146S	III Bsc maths	N. Tulasi	N. Tulasi
39.	233147S	III Bsc maths	P. Durga	P. Durga
40.	233148S	III Bsc maths	R. Navya Sri	R. Navya Sri
41.	233149S	III Bsc maths	S. Anitha	S. Anitha
42.	233150S	III Bsc maths	V. Mohana Priya	V. Mohana Priya
43.	233151S	III Bsc maths	V. Akhila	V. Akhila
44.	233152S	III Bsc maths	V. Swapna latha	V. Swapna latha

DEPT. OF MATHEMATICS
Sri Durga Malleswara Siddhartha Mahila Kalasala
VIJAYAWADA-520 010

19/12/25

MEDIA COVERAGE

సాక్షి

ఘనంగా జాతీయ గణిత దినోత్సవం

పోటీల్లో విజేతలతో సుందరి, వెంకటేష్

నిర్మల శిశు భవన్‌కు నిత్యావసరాలు అందచేస్తున్న సిద్ధార్థ విద్యార్థులు

మ్యాథ్స్‌డే వేడుకల్లో విద్యార్థులు

ప్రదర్శనలోని అంశాలను పరిశీలిస్తున్న ప్రిన్సిపాల్ సీతారామయ్య, ఉపాధ్యాయులు

నిర్మల శిశుభవన్‌లో నిత్యావసరాలు అందచేత

నేటి విద్యార్థులే రేపటి గణిత శాస్త్రవేత్తలు

23/12/2025 | Vijayawada East | Page : 9
Source : https://epaper.sakshi.com/

గణితాన్ని కష్టపడి కాకుండా ఇష్టపడి నేర్చుకోవాలి

హైదరాబాద్ యూనివర్సిటీ ప్రొఫెసర్ దుర్గాభవాని

విజయవాడ, డిసెంబర్ 23 (అజయ్ నారగాని –నేటి శుభోదయ): గణితాన్ని కష్టపడి కాకుండా ఇష్టపడి నేర్చుకోవాలని హైదరాబాద్ యూనివర్సిటీ ప్రొఫెసర్ దుర్గాభవాని అన్నారు. మంగళవారం శ్రీ దుర్గామల్లేశ్వర సిద్ధార్థ మహిళా కళాశాలలో శ్రీనివాస రామానుజన్ 139వ జన్మదినోత్సవాన్ని పురస్కరించుకొని జాతీయ గణిత శాస్త్ర దినోత్సవ సందర్భంగా గణితశాస్త్ర విభాగం ఆధ్వర్యంలో నిర్వహించిన కార్యక్రమంలో ఆన్లైన్ ద్వారా మాట్లాడారు. ఘాత ప్రమేయాలను, సంవర్గ ప్రమేయాల మధ్య గల సులభ విధానాలను తెలుసుకోవచ్చన్నారు. గణితాన్ని కష్టంగా కాకుండా ఇష్టంగా నేర్చుకుంటే సులువుగా వస్తుందని విద్యార్థినులకు తెలిపారు. కళాశాల ప్రిన్సిపాల్ డాక్టర్ వి. వి. సుబ్రహ్మణ్య కుమార్ అధ్యక్షత వహించిన కార్యక్రమంలో గణితశాస్త్ర విభాగాధిపతి దుర్గావతి మాట్లాడుతూ అంతర్జాల మాధ్యమాలద్వారా వినిపించిన మాటలు విద్యార్థినులకు ఎంతో ఉపయోగకరంగా ఉందన్నారు. కళాశాల విద్యార్థినులు నిర్మల శిశు భవన్ సేవాకేంద్రానికి నిత్యావసర సరుకులు అందచేశారు. కార్యక్రమంలో అధ్యాపకులు, విద్యార్థినులు పాల్గొన్నారు.

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