



SURANA COLLEGE

Autonomous Institute, Affiliated to Bangalore University
Grade 'A+' Reaccredited by NAAC | IAO Certified

DEPARTMENT OF PHYSICS

Report on seminar

by

Dr. K Ramesh

Principle Research Scientist

Dept. of Physics

Indian Institute of Science, Bangalore

on

"Introduction to Chalcogenide Glasses"

held on

February 19th, 2025 at 02:30pm – 04:30pm

Organized by

Department of Physics

Surana College Autonomous in association with Centre for Physics,
Malleswaram, NMKRV College for Women, Jayanagar, and National College
Jayanagar

The Department of Physics, *Surana College (Autonomous)*, in association with the Department of Physics at *NMKRV College for Women (Autonomous)* and *The National College (Autonomous)*, Jayanagar, successfully conducted an insightful seminar on **"Introduction to Chalcogenide Glasses – Their Non-Volatile Memory and Infrared Applications"** on February 19, 2025.

The event was graced by the esteemed presence of Dr. K Ramesh, Principal Research Scientist, Department of Physics, Indian Institute of Science, Bangalore. The seminar took place at the Seminar Hall, Surana College Autonomous, and commenced at 2:30 PM.

The session began with an invocation song and a welcome speech delivered by Mr. Sumukha C S, Assistant Professor, Department of Physics, Surana College, South End Road, Bangalore. This was followed by the introduction of the guest speaker, highlighting his contributions to the field of chalcogenide glasses and their applications in non-volatile memory and infrared technology by Ms. Pakhi Bose, II year BSc (P-Cs) student.

Highlights of the Seminar:

- **Dr. Ramesh** provided an in-depth understanding of **chalcogenide glasses, their unique properties, and their applications in modern technology**.
- The session covered **non-volatile memory applications** and **infrared sensing technologies**, demonstrating their relevance in advanced research and industry.
- Students and faculty actively participated in an **engaging Q&A session**, seeking insights **into real-world applications and future research** directions.
- The seminar marked the launch of **the "Waves of Wisdom"** seminar series and the activation of the Physics Club – **Spectral Sparks**.

The event concluded with a **vote of thanks** delivered by **Dr. Divya Dexlin, Head of the Physics Department, Surana College (Autonomous)**, acknowledging the speaker and the organizing committee.

Guests:

- Prof J Ramakrishna, retd. professor, IISc, (honorary academic advisor, Physics dept, Surana College Autonomous)
- H S Nagaraja, treasurer, Forum For Excellence in Education
- P Nagaraju, former professor, National College Jayanagar

Key Outcomes:

- Students gained significant insights into chalcogenide glasses and their applications.
- Faculty members established academic contacts with IISc researchers.

This seminar served as an excellent platform for students and faculty to gain valuable knowledge, fostering a spirit of **scientific curiosity and research-oriented learning** within the academic community.


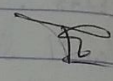



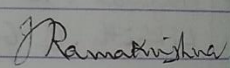
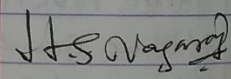
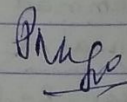
List of attendees

Waves Of Wisdom

19/02/2025

waves - 1 Speaker: Dr. K. Ramesh
IISc

Faculties: 6

Sl. No	Name	cloms	section	college	signature
1	Dr. Divya Deth	Physics		Surana College	
2	J.R. Mahalingappa Math			Surana College	
3	Dr. Farzan Javer BDKchudg			Surana College	
4	Pavan	Phy-Dept		NMKRV	
5	Sumalcha, C.S	Physics		Surana College	
6	Prof. J. Ramakrishna	- COP			
7	H.S. NAGARAJA	- COP			
8	Dr. P. Nagaraju	Former Professor	National College Fujangar		

Students:

S.NO	NAME	class	section	college	Signature
1.	Poonu H.L	B.Sc 2nd yr	A	Surana Autonomous	Poonu H.L
2.	Kurthi . K	B.Sc 2nd yr	A	Surana Autonomous	Kurthi . K
3.	Dwika . N	B.Sc 2 nd yr	A	— " —	Dwika
4.	Kanaka Bai.B	— 11 —	— 11 —	— " —	Kanaka
5.	Sadaja	— 11 —	— 11 —	— " —	Sadaja
6.	Usman	B.Sc 3 rd yr	— " —	— " —	Usman
7.	Narpat	B.Sc —	— " —	— " —	Narpat
8.	Ananya . R	B.Sc 1 st yr	A	— " —	Ananya . R
9.	Varsha . G.U	B.Sc 1 st yr	A	— " —	Varsha
10.	Archana	B.Sc 1 st yr	A	— " —	Archana
11.	Anusha . R	B.Sc 1 st yr	A	— " —	Anusha
12.	Lisha . B.Gowda	B.Sc 1 st yr	A	— " —	Lisha
13.	Mahalakshmi . S.N	B.Sc 1 st yr	A	— " —	Mahalakshmi . S.N
14.	Bhadrushree . A	B.Sc 1 st yr	A	— " —	Bhadrushree . A
15.	PUNYA . G.ACHAR.	B.Sc 1 st yr	A	— " —	Punya
16.	Deeksha . S	B.Sc 1 st yr	A	— " —	Deeksha . S
17.	Kusuma . CM	B.Sc 1 st yr	A	— " —	Kusuma . CM
18.	Hasini . P	B.Sc 1 st yr	A	— " —	Hasini . P
19.	Dhanuha	B.Sc 2 nd yr	A	NMKRV Women college	Dhanuha
20.	Divyansha R.S	B.Sc 2 nd yr	A	NMKRV college for women	Divyansha
21.	Varshini . M	B.Sc 2 nd yr	A	NMKRV college for women	Varshini
22.	Samr Kowain	B.Sc 2 nd yr	A	NMKRV college for women	Samr
23.	Nabeela Akeem	B.Sc 2 nd yr	A	NMKRV college for women	Nabeela
24.	Deepika JM	B.Sc 2 nd yr	A	NMKRV college for women	Deepika
25.	Gopika . A	B.Sc 2 nd yr	A	NMKRV college for women	Gopika
26.	Shruthi . N	B.Sc 2 nd yr	A	NMKRV college for women	Shruthi
27.	Saranya . G	B.Sc 2 nd yr	A	NMKRV college for women	Saranya
28.	Nandhini M	B.Sc 2 nd yr	A	NMKRV college for women	Nandhini
29.	Madhumitha . P	B.Sc 2 nd yr	A	NMKRV college for women	Madhumitha
30.	Sindhu Holla VR	B.Sc 2 nd yr	A	NMKRV college for women	Sindhu Holla
31.	Bhavya Shri VT	B.Sc 2 nd yr	A	NMKRV college for women	Bhavya Shri
32.	Lohitakshi S	B.Sc 2 nd yr	A	Surana College	Lohitakshi

Sl. No.	Name	Class	Section	College	Signature
33.	Mohammed Fouzan	BSc I yr	A	Surana College	Fouzan
34.	Abhishek. K	BSc I yr	A	— " —	Abhishek
35.	Rohit Yadav	BSc I yr	A	— " —	Rohit
36.	Manish. S	BSc I yr	A	— " —	Manish
37.	Prajwal. K	BSc I yr	A	— " —	Prajwal
38.	Dhanush. S	BSc I yr	A	— " —	Dhanush
39.	Sankar Reddy	BSc I yr	A	— " —	Sankar
40.	Penceka	BSc I yr (PMS)	-	— " —	Penceka
41.	Blavana C-S	BSc I yr	-	— " —	Blavana
42.	Mahalakshmi. S	BSc I yr	-	— " —	Mahalakshmi
43.	Kavana. C	BSc I yr	-	— " —	Kavana
44.	Monisha. V	BSc I yr	-	— " —	Monisha
45.	Dinesh. V	BSc I yr	-	— " —	Dinesh
46.	Narajimha Musthy	BSc I yr	-	— " —	Narajimha
47.	prajwal R	BSc I yr	-	— " —	Prajwal
48.	Likith. B. Gouda	BSc I yr	-	— " —	Likith
49.	mohammad. Riya	BSc I yr	-	— " —	Riya
50.	Dilip KUMAR	BSc I yr	-	— " —	Dilip Kumar
51.	Vinay. B. C	MSc. Physics	-	NCS, Bangalore	Vinay
52.	Gurukiran. S	MSc. Physics	-	NCS, Bangalore	Gurukiran
53.	Anitha. A	MSc. Physics	-	NCS, Bangalore	Anitha
54.	PARHI BOSE	BSc II yr	-	Surana College	Parhi Bose
55.	Anurutha Ravi Kumar	BSc II year	-	Surana College	Anurutha
56.	Shruti Sharma	BSc II year	-	Surana College	Shruti
57.	B.N. Harshavardhan	BSc II Year	-	Surana College	Harshavardhan
58.	Jyothilakshmi	BSc I yr	-	Surana College	Jyothilakshmi
59.				Surana College	Jyothilakshmi

Glimpses of the Event:









Group picture:



Event poster



**SURANA COLLEGE
AUTONOMOUS**
Affiliated to Bangalore University | Re-accredited by NAAC with A+
Recognised under section 2(f) & 12(B) of UGC



**Physics Department
and
Centre for Physics**
(A Unit of Forum For Excellence in Education)
(A trust for Promoting Quality in Education)
Malleswaram, Bengaluru-560003
organize a seminar on

**“Introduction to Chalcogenide Glasses
their Non-Volatile Memory and Infrared Applications”**

by

Dr. K Ramesh
Principal Research Scientist
Department of Physics
Indian Institute of Science, Bangalore-560012

In Association with

Physics Department
NMKRV College for
Women (Autonomous)
Jayanagar

Physics Department
The National College
Jayanagar (Autonomous)
Jayanagar

Inauguration of monthly seminar series
“Waves of Wisdom”
And reactivating the Physics club
Spectral Sparks

19th
February 2025

02:30 PM

Seminar hall,
Surana College Autonomous
South End Road, Bangalore-560004