

National Science Day Celebration Report

Date: 7th March 2026

Venue: Auditorium

Organized by: Basic Science Forum

Occasion: National Science Day Celebration

Organizers: Basic Science Departments (PHYSICS, CHEMISTRY, MATHEMATICS)

National Science Day was celebrated on 28 February to commemorate the discovery of the Raman Effect by Sir C. V. Raman in 1928. The celebration aimed to promote scientific temper among students and encourage curiosity, innovation, and research-oriented thinking. Faculty members and students actively participated in the program, making the event informative and inspiring.

The program began with a warm welcome to the dignitaries, faculty members, and students. The significance of National Science Day was highlighted, emphasizing the importance of science in everyday life and technological advancement.

Inaugural Session

The event started with invocation followed by lighting of the lamp. The dignitaries were welcomed by Dr. Nagabhushana N M, with floral greetings. Dr. Aravind Patel sir, Secretary, V V S Ballari, addressed the gathering and shared his valuable thoughts on the importance of science education and innovation. Dr. Sumangal B, Professor and HoD, Department of Mathematics and Dr. N M Kottureshwara, HoD, Department of Chemistry actively involved, without them it's difficult to succeed. Also all the faculties of Physics Chemistry Mathematics actively participated.

V V S Secretary Dr. Aravind Patel Sir Speech

Dr. Aravind Patel sir, Honorable secretary of V V Sangha, Ballari extended his greetings and delivered presidential remarks on the occasion of National Science Day. He emphasized that science plays a vital role in national development and societal progress. He appreciated the Department of Physics for organizing the program and encouraging students to develop scientific thinking.

He highlighted that students should not only focus on theoretical knowledge but also engage in experiments, research, and innovation. He motivated students to ask questions, explore new ideas, and work towards solving real-world problems. He also mentioned that India has a rich scientific heritage and young minds should contribute towards future technological advancements.

He concluded his speech by encouraging students to cultivate curiosity, develop analytical skills, and use science for the betterment of society. He wished the program great success and appreciated the efforts of faculty members and organizers.

Resource Person Session

The resource person, Dr. Ajith K M, Professor Department of Physics, National Institute of Technology (NITK), Surathkal, delivered an informative lecture on the importance of quantum mechanics and its applications in modern science and technology. The session was interactive and students actively participated.

Resource Person Speech

The Resource Person began by explaining the significance of National Science Day and the discovery of the Raman Effect. He discussed how this discovery brought global recognition to Indian science and inspired generations of researchers.

He then introduced the fundamentals of Quantum Mechanics, explaining that it deals with the behavior of microscopic particles such as electrons, atoms, and photons. Important concepts like wave-particle duality, Heisenberg uncertainty principle, quantum superposition, and quantum tunneling were discussed.

He explained how quantum mechanics plays a crucial role in modern technologies such as semiconductors, lasers, quantum computing, and medical imaging. The speaker emphasized that understanding fundamental physics helps in developing advanced technologies.

The resource person encouraged students to develop interest in research and pursue careers in science and technology. The session concluded with student interaction and discussion.

Course Outcomes (COs) – National Science Day Activity

After participating in the National Science Day celebration, students will be able to:

CO1: Understand the significance of National Science Day and Raman Effect

CO2: Explain fundamental concepts of Quantum Mechanics

CO3: Identify applications of quantum mechanics in modern technology

CO4: Develop scientific temper and analytical thinking

CO5: Demonstrate communication skills through presentation and assignments

CO – PO Mapping (New NBA 11 POs)

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
CO1	3	2	-	-	-	2	-	-	2	-	2
CO2	3	3	2	2	2	-	-	-	2	-	2
CO3	3	2	2	2	2	2	-	-	2	-	2
CO4	2	3	2	2	-	2	2	2	2	2	3
CO5	2	2	-	-	-	-	-	3	3	2	2

Mapping Scale: 3 – High 2 – Moderate 1 – Low – No correlation

Program Outcomes (POs) Addressed (New 11 POs)

PO1: Engineering Knowledge

PO2: Problem Analysis

PO3: Design/Development of Solutions

PO4: Conduct Investigations of Complex Problems

PO5: Engineering Tool Usage

PO6: The Engineer and The World

PO7: Ethics

PO8: Individual and Team Work

PO9: Communication

PO10: Project Management and Finance

PO11: Life-Long Learning

Outcome of the Activity (CO Attainment)

- Students understood importance of National Science Day

- Students learned fundamentals of quantum mechanics
- Improved scientific awareness and curiosity
- Enhanced communication and presentation skills
- Encouraged lifelong learning and research interest



Photo1: Delivering Presidential remarks by Dr. Aravind Patel sir Honorable secretary of V V Sangha, Ballari during National Science Day celebration on 7Th march 2026



Photo2: Resource Person Dr. Ajith K M, Professor, Department of Physics, National Institute of Technology (NITK), Surathkal, Delivering Speech On women in science: Catalyzing Viksit Bharat during National Science day celebration on 7Th march 2026



Photo 3: Group Photo of all the Organizers from Basic Science Department, with Dr. Aravind Patel Sir Honorable secretary of V V Sangha, Ballari, Resource Person Dr. Ajith K M, Professor, Department of Physics,



Photo 4: Delivering Welcome Speech by Dr. Nagabhushana N M, Professor and HoD, Department of Physics and Research Center VTU-RC, RYMEC, Ballari

National Institute of Technology (NITK), Surathkal,
Dr. Rajashekar Shanmugam, Principal RYMEC, Vice Principal
Dr. Savitha Sonali Madam graced the occasion

**Ph.D. Viva-Voce Examination of my PhD student Ms. Lavanya Basavaraj Gunjal – Brief Note by
Dr. Nagabhushana N M on 16.03.2026**

The Ph.D. Viva-Voce examination of Ms. Lavanya Basavaraj Gunjal was conducted successfully in the Department of Physics.

The title of the thesis is “Synthesis and Characterization of Conjugated Polymers and Their Applications for Sensors.” The viva-voce examination was conducted in the presence of Dr. C. Shivakumar, Chief Research Scientist, Solid State and Structural Chemistry Unit, IISc Bengaluru, who served as the External Examiner and Dr. Nagabhushana N M, Professor and HoD as Internal Examiner.

During the viva-voce examination, the candidate presented the objectives, methodology, synthesis procedures, characterization techniques, results, and conclusions of her research work. She explained the significance of conjugated polymers and their potential applications in sensor technology. The candidate responded confidently and satisfactorily to the questions raised by the external examiner and the audience.

The External Examiner appreciated the quality of research work, systematic presentation, and the candidate’s in-depth understanding of the subject. The examination committee expressed satisfaction with the work carried out and recommended the award of the Ph.D. degree.

Faculty members, research scholars, and students attended the viva-voce examination and actively participated in the technical discussion. The session concluded successfully with appreciation for the candidate and the research supervisor. Candidate Lavanya Basavaraj Gunjal thanked Dr. C Shivakumar, Chief Research Scientist, Solid State and Structural Chemistry Unit, IISc Bengaluru, Dr. Manjunath S, Chairman and Dean Academics, Department of Physics, Kishkinda University, Ballari, for support and helps extended in attaining it without which it would have not been possible.

Thesis Evaluation and preparation report: The thesis submitted by Ms. Lavanya Basavaraj Gunjal, entitled Synthesis and Characterization of Conjugated Polymers and Their Applications for Sensors.” Evaluated by three adjudicators, myself, Narayana Chandra Mishra, Professor and Head, Department of Physics, IIT Roorkee, Dr.C Shivakumar, Chief Scintist, IISc, Bangalore.



Photo 1: Dr. Nagabhuhana N M, Professor and HoD, Delivering Welcome address



Photo 2: Candidate Ms. Lavanya Basavaraj Gunjal delivering her PhD Research work



Photo 3: Candidate's family with External Examiner, Dr. C Shivakumar, Chief Scientist, IISc., Bangalore

Outstanding Achievement by BE students

Two students have demonstrated outstanding academic excellence in Physics by securing a perfect score of 100/100 in the university examinations. Ms. M. Shilpa achieved 100/100 (3VC25CS047) in Quantum Physics and Applications (CSE Stream) during Semester-1, and Ms. Resham A. P. (3VC24CI083) secured 100/100 in Applied Physics for CSE Stream during Semester-2. Their remarkable performance reflects strong conceptual understanding, consistent effort, and academic dedication. This achievement brings pride to the department and serves as an inspiration to fellow students

Conference Paper Presentation – IQAC Initiative

Under the IQAC initiative, a one-day National Conference on *Emerging Trends in Science and Technology* was organized by KLE Society's G. I. Bagewadi Arts, Science and Commerce College, Department of Science, on 23.02.2026.

Mr. A. S. Basavaraja, who is pursuing his Ph.D. under the guidance of Dr. Nagabhushana N. M., Professor and Head, Department of Physics and Research Center, VTU-RC, presented a research paper at the conference. The title of the paper was **“Determination of Mercury Concentration in Soil Samples from the Sandur Mining Region Using Nuclear Technique.”**

The presentation highlighted the application of nuclear techniques for analyzing mercury concentration in soil samples collected from the Sandur mining region. The study emphasized the importance of monitoring heavy metal contamination and its environmental impact. The presentation was well received and appreciated by the participants and experts for its scientific relevance and research contribution.



Photo1: Mr. A. S. Basavaraja, Presenting paper and which is published in journal, Conference Paper presentation in National conference by A S Basavaraja working for his PhD under the guidance of Dr. Nagabhushana N M

