



SCIENCE CLUB

AS: 2024-25

Introduction

With immense pride, the Science Club of the School of Basic Science unveils its annual report, celebrating a year filled with exceptional scientific achievements. Throughout the academic session, the Club has consistently engaged in numerous science-focused endeavors, including captivating science programs, informative wall magazines, challenging puzzle displays, and its academic radio broadcast “**Science ki Baat.**” These efforts have not only nurtured students' interest and inquisitiveness but have also highlighted their remarkable successes across diverse scientific disciplines.

Highlights of Activities

World Earth Day 2025

To commemorate *World Earth Day 2025*, the School of Basic Sciences, in collaboration with the Internal Quality Assurance Cell (IQAC) of the University, successfully organized a Panel Discussion aimed at fostering awareness and encouraging sustainable practices for environmental conservation. The theme for this year, “*Our Power Our Planet*”, set the tone for a thought-provoking and insightful dialogue among experts.

The Chief Guest Prof. (Dr.) Satish Chander Sharma, the Pro Vice Chancellor emphasized the importance of awareness about sustainable practices to engage the audience.

The session featured an esteemed panel of environmental experts and scientific minds:

Prof. (Dr.) R. P. Singh, Babasaheb Bhim Rao Ambedkar University, Lucknow, highlighted the use of renewal energy for sustainable development and pointed out the importance of

science and technology for minimization of solid waste generation.

Dr. V.P. Sharma, Chief Scientist and Professor, AcSIR, CSIR-IITR, Lucknow, focused on Hydrogen Energy Generation as Green and Clean Energy.

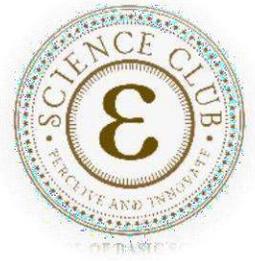
Dr. Nilesh Agrawal, CEO, Earth Protection Group, Lucknow, discussed about the role of NGOs and agencies for solid waste management through energy generation and conversion of waste into wealth.

Students and faculty members engaged enthusiastically, raising pertinent questions and proposing innovative solutions during the interactive session.



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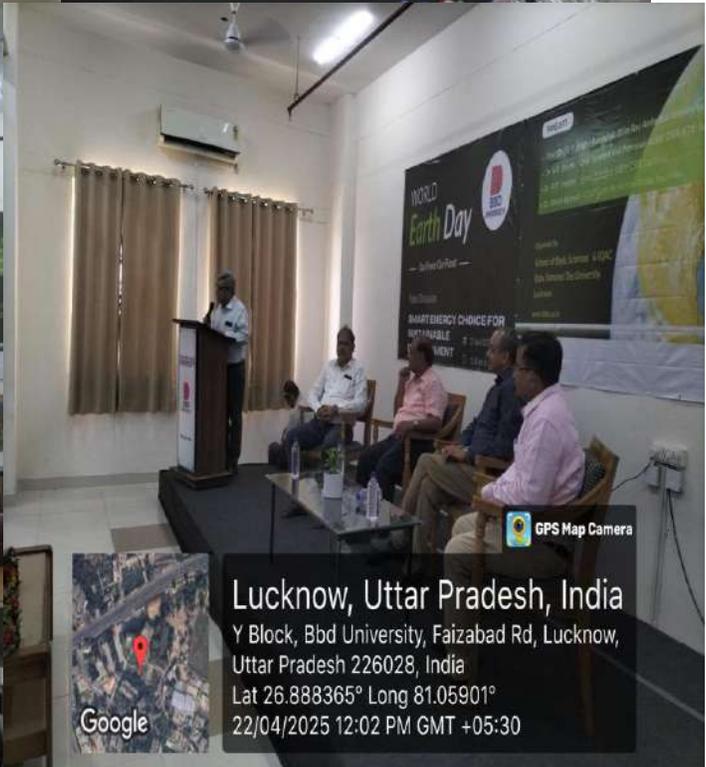
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National Science Day 2025

The School of Basic Sciences celebrated National Science Day on February 28, 2025. The theme was “Role of Youth in Viksit Bharat and Sustainable Environment”. On this occasion, Dr. Dhruva Sen Singh delivered a lecture on the topic “Role of Youth in Viksit Bharat and Sustainable Environment”. The lecture was aimed at inspiring the younger generation to engage with science and innovation to achieve the goal of ‘Viksit Bharat’ and fulfill the Goal of Sustainable Development (GSD). He said that the goal can be achieved by increasing per capita energy consumption and per capita income. He has focused on different nonconventional energy i.e., solar energy and geothermal energy.

The session attracted a diverse group of students and educators passionate about India's progress and its global positioning in science and technology. The event began with a warm welcome to the guest speaker and attendees by Prof. (Dr.) S. Ahmad Ali, Dean, School of Basic Sciences, Babu Banarasi Das University, who emphasized the importance of empowering the youth as the future of India's innovation and technological growth. The session was convened by the Dr. Pramod Kumar Singh, Department of Chemistry, School of Basic Sciences with vote of thanks.



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Expert talk on the topic “Unveiling the Secrets of Vedic Mathematics – The Lost Art of Calculations”

As part of its ongoing initiative to promote the Indian Knowledge System, The School of Basic Sciences organized an expert talk on 07-05-2025 on the topic "Unveiling the Secrets of Vedic Mathematics – The Lost Art of Calculations" by renowned scholar Dr. Shyam Kishor, Department of Mathematics and Astronomy, University of Lucknow with an enthusiastic gathering of students, faculty, and guests in attendance.

The lecture aimed to shed light on the ancient mathematical techniques from the Vedic era and their applications in modern times. Vedic Mathematics, an age-old system, is known for its simplicity, speed, and efficiency, and has been recognized as a valuable tool for solving complex mathematical problems.

Dr. Shyam Kishor, an expert in Vedic Mathematics, is a passionate advocate for promoting India's ancient knowledge systems. With years of research and teaching experience, Dr. Kishor possesses vast knowledge and engaging teaching style. He captivated the audience throughout the session.

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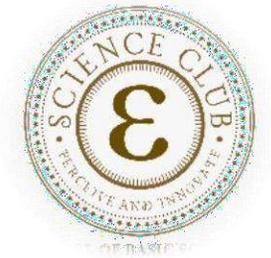
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Workshop on Web Scraping and Visualization

The workshop on Web Scraping and Visualization was successfully conducted on 29-11-2024, bringing together participants eager to learn modern techniques in data extraction and representation. The workshop aimed to equip attendees with practical skills to scrape data from websites and create compelling visualizations to draw actionable insights.

The primary objectives of the workshop were:

To provide participants with foundational knowledge of web scraping and its applications.

To demonstrate ethical and legal practices in web scraping.

To introduce tools and libraries for scraping and data visualization.

To conduct hands-on exercises to ensure practical understanding.

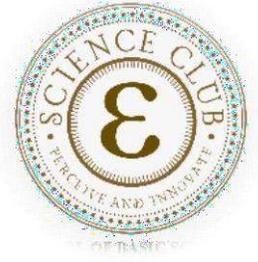
The workshop witnessed active participation from 80 attendees, including students from first, second and third year of B.Sc. (Hons.) Mathematics and Computer Science. The audience displayed enthusiasm and curiosity, engaging actively in discussions and practical exercises.

The session was led by Areeba Shakeel, Data Science Expert from Digipodium, who shared practical examples and addressed real-world challenges. Attendees completed hands-on tasks, such as scraping data from a sample website and visualizing it using Python libraries.



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Guest Lecture on Calculus to Topology

The School of Basic Sciences organized an expert talk by Prof. S. B. Nimse, an eminent mathematician and former Vice Chancellor of the University of Lucknow and Nanded University. The lecture took place on 23rd September 2025 at 11:15 AM in Room 210, Second Floor of the University Building. The program started with a welcome note from Dr. S. Ahmad Ali, Dean, School of Basic Sciences and the session was Chaired by the Hon'ble Vice Chancellor Dr. S. K. Srivastava.

Prof. Nimse delivered an insightful talk on the topic – Calculus to Topology. In his talk started with core concepts – limit, derivative and integration. He then discussed the open set and showed how it led to the development of the most generalized topological spaces.

The session was well-received by the students and faculty members, who actively engaged in a question-and-answer session following the lecture. The event successfully enhanced the participants' understanding of the pivotal role mathematics plays beyond its traditional boundaries.

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