



SURANA COLLEGE

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

ACADEMIC YEAR 2022-23

DEPARTMENT OF BSC

**TOPIC : REPORT ON VISIT TO
OPEN DAY 2023 AT IISc FOR
THE FIRST AND SECOND
YEARS OF BSC STUDENTS**

**Submitted to,
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HOD
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Indian Institute of Science

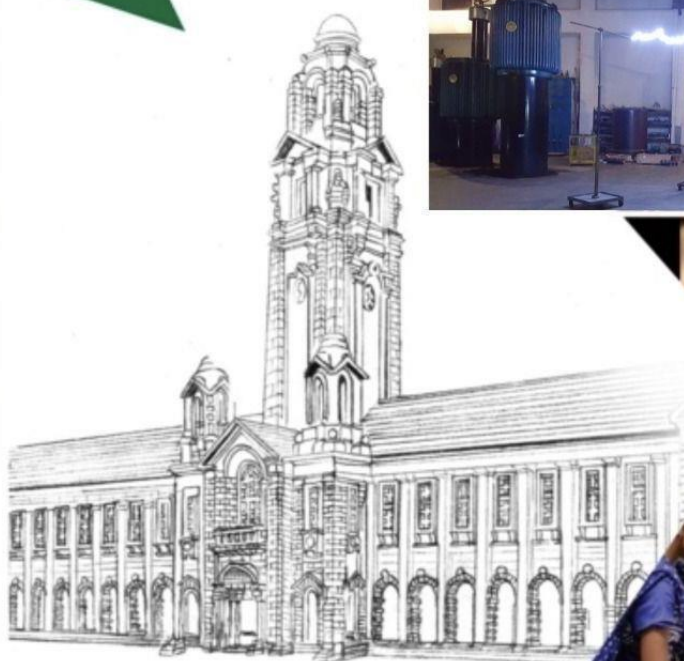


OPEN DAY

Saturday 4 March 2023

9 am - 5 pm

LIVE EXPERIMENTS | POPULAR SCIENCE LECTURES
SCIENTIFIC DEMOS | EXHIBITIONS



Partner with us for a green Open Day

DO NOT LITTER - SEGREGATE YOUR WASTE | BRING YOUR OWN WATER BOTTLES

TAKE A WALK THROUGH... EXPLORE, EXPERIENCE & ENJOY

PAGE OF CONTENTS

Sl no.	TOPIC	PAGE NO.
1.	Introduction to IISC and Open day	4
2.	Report of the visit to Open day 2023 A brief look at the : <ul style="list-style-type: none">• Biological sciences• Chemical sciences• Neurosciences• Infrastructure and transportation centre	5-6
3.	Photos clicked at the visit	7-9
4.	Conclusion	10

AN INTRODUCTION TO THE INDIAN INSTITUTE OF SCIENCE

The **Indian Institute of Science (IISc)** is a public, deemed, research university for higher education and research in science, engineering, design, and management. It is located in Bangalore, in the Indian state of Karnataka. The institute was established in 1909 with active support from Jamsetji Tata and thus is also locally known as the "*Tata Institute*". It is ranked among the most prestigious academic institutions in India. IISc is renowned for its emphasis on innovative, interdisciplinary research in both basic and applied sciences. The Institute also encourages fundamental research in critical areas such as climate change, neuroscience, big data, ecology, infectious diseases and nanotechnology.

India's first ever deemed university, IISc also has the distinction of introducing several new research disciplines & programmes for the first time in India, including Master's programmes in engineering & integrated PhD programmes. The Institute also recently launched a Bachelor of Science (Research) programme.

What is Open day at IISc?

The Open Day of the Indian Institute of Science, Bangalore, is an annual event, showcasing IISc's research and development activities to the student community and the general public. This year, it was held on SATURDAY, 3rd March 2023 from 9 am to 5 pm. On this day, students, science and technology enthusiasts, and the public, will have an opportunity to visit the Institute and go around the campus to explore the exciting science and technology initiatives and activities of the Institute. The Open Day will feature popular lectures, experimental demos, poster presentations, quiz contests, scientific competitions, and exhibitions that will be showcased in the various departments and centres. A "Kids-Zone" will offer a special attraction for all the younger students, with a number of science and technology demos will be on display.

REPORT OF THE VISIT TO OPEN DAY AT IISc ON MARCH 3RD 2023

A total of 18 BSc students of which 13 were second years and 5 were first years along with the faculty of science including Dr. Malini ma'am (Department of botany), Dr. Pooja ma'am (Department of biotechnology), Mr. Ashok sir (Department of Chemistry), Mr. Srinivas sir (Department of Physics), Dr. Ramesh sir (Department of Physics), Ms. Veena ma'am (Department of mathematics). Bus was arranged from college to facilitate easy transport for all. We started off at 9:45am from college and reached the venue at 10:45. We mainly visited the department of life sciences and also took a look at other departments like physics and the centre for infrastructure and transportation. We observed the following things at Open day :

1. At the centre for biological sciences,

Here, we could see the display of an introduction to molecular biology and the contribution towards this field by various scientists. Lectures were being demonstrated on how the antibody works in our body, the difference between DNA and RNA, how our cells store RNA, the process of transcription and translation, concept of phylogeny, a model of electrophoresis for the separation of DNA fragments using micropipettes, display of culture plates for the growth of microbes, how yeast cells can be observed under the microscope and many more interesting topics!

2. At the centre for neurological sciences,

Certain mind games and colour test puzzles were shown to the visitors to check their psychological mind set. Identifying a colour whose name would be interchanged with another colour was the task that sharpened our minds. Those who gave the right answers would be gifted with chocolates and a piece of advice on how to concentrate better.

3. At the centre for chemical sciences,

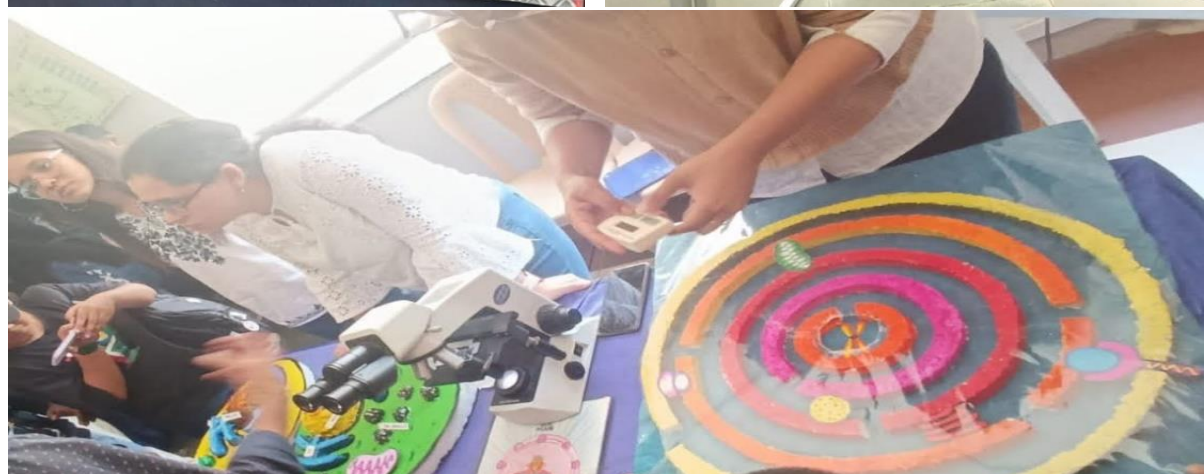
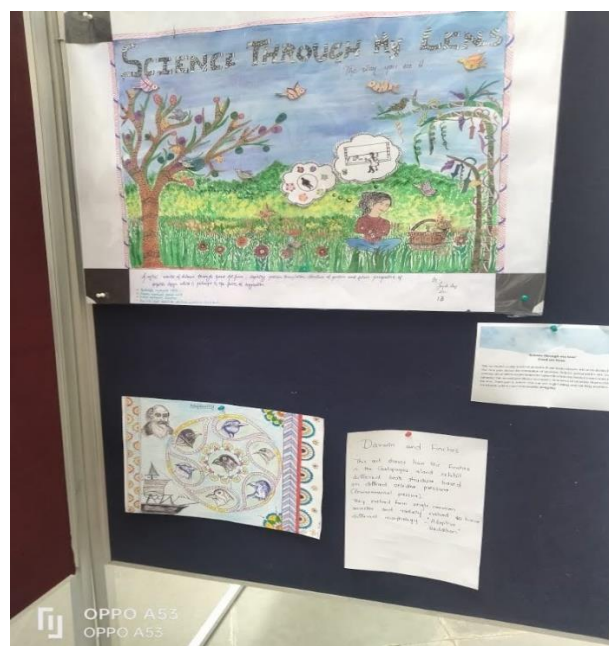
Experiments were being carried out on various topics like :

- ✚ Elephant toothpaste : a mixture of 30% Hydrogen peroxide and dish washer catalysed by Potassium iodide would rise the mixture to resemble an elephant's toothpaste!
- ✚ Detection of finger prints : Cyanoacrylate fumes react with amino acids in the fingerprint to stain the finger print pattern deep blue or purple on paper.
- ✚ Making of hydrophobic cloth : A cloth when dipped in paraffin wax containing spirit, it turns hydrophobic.
- ✚ Copper wire experiment : Made with a battery cell, a copper wire and magnet, the wire is bent into a V at the centre and put on the positive end of the battery. Here, a permanent magnet is used to provide the external magnetic field in which the Cu wire will spin and a battery causes the current to flow along a conducting wire.
- ✚ Many more exciting experiments like turning cotton into rayon, driving simulator, making ice using liquid nitrogen and display of natural indicators were being demonstrated.

At the centre for infrastructure and transportation, innovative ideas were being explained to the visitors with live computerized experiences to combat traffic problems and sustain a favourable development.

HERE ARE A FEW PHOTOS OF THE VISIT,

At the centre for biological sciences,



At the centre for chemical sciences,





A group photo near the main building.....

ACKNOWLEDGEMENT AND CONCLUSION

We thank our college and the faculty for taking this initiative which motivated us in the field of science and work towards contributing to the development of the society in all spheres. We could see the contribution of IISc in coming up with innovative ideas and taking us through their learning and creations as part of the National Science day celebrations every year. They showed us a simple approach to big topics and inspired us to discover the science behind everything. We are thankful to the teachers for guiding us through this visit and everyone who accompanied us in building an enjoyable learning experience.

