



February 2023

# KATHAN-50

*Kathan*  
ज्ञानम् यजामहे ।



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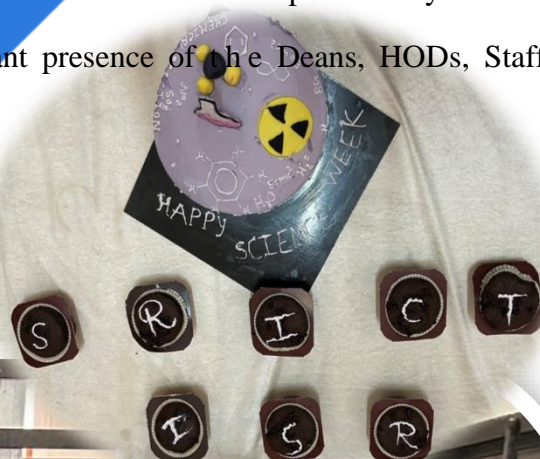
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# Science Week 2023

SRICT-ISR of UPL University of Sustainable Technology celebrated the grand event entitled “Science Week” from 21st to 28th February. Inaugural ceremony of the “Science Week” was presided by our Hon’ble Provost Prof. Dr. Shrikant J. Wagh amidst the vibrant presence of the Deans, HODs, Staff members and the students.

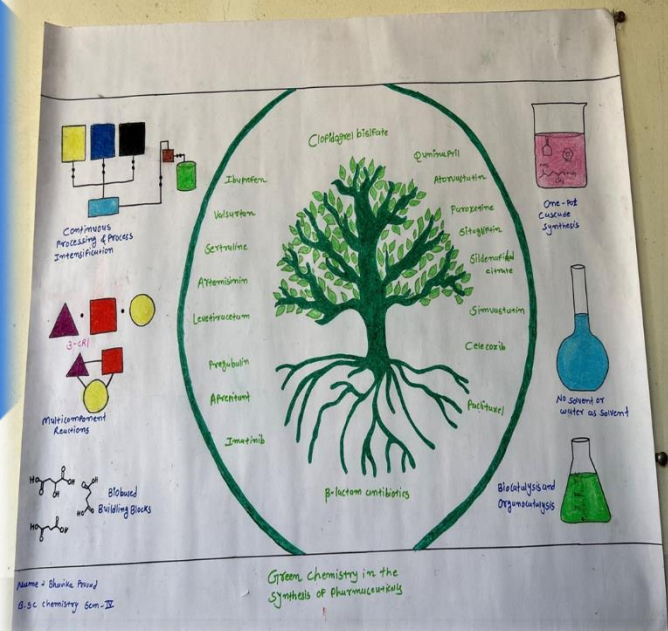
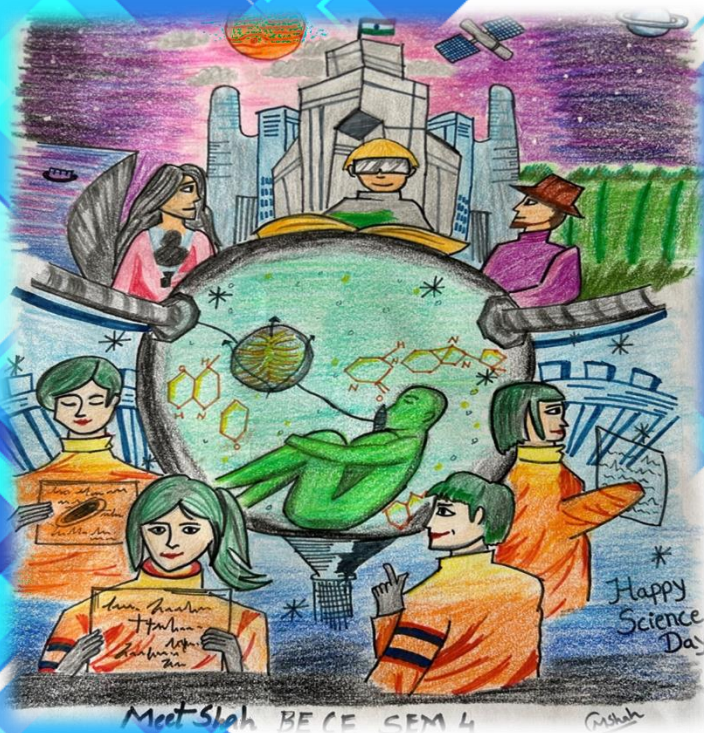






After the Inauguration, there were two activities scheduled for the first day ----- Essay-Writing on various topics like Global Science for Global Wellbeing, Science-Present and Future, Sustainability in terms of Education and Sketch Your Ideas on the topic Sustainable Development. Both of the activities over the aforesaid themes attracted encouraging participation from about 70 students. The students elucidated on the significance of sustainable development and green chemistry via sketches and they remained very much interested in participating various activities during the week.





SRICT-ISR organized two activities for the consecutive second day of the “Science Week” comprising Poster presentations and display of select videos or movies in order to promote a scientific approach. The students assembled and presented posters on the prestigious works of prominent Nobel Prize-winning Scientists. Having attended minutely the sessions of the theories, principles, and Laws of Science by the eminent scientists of repute, the students seemed to have acquired a great deal of knowledge.





The institute organized two activities for the third day of the event that comprised scientific Seminars in order to develop both Scientific Approach and Attitude. The first session of this seminar was delivered by Dr. Mayank Patel, (R&D Head Cadchem Pharmaceutical Ltd., Ankleshwar) on "NMR Spectroscopy" in which he explained the use of NMR phenomena with a view to studying the physicochemical and biological properties of materials. Second session was delivered by Mr. Amal Pillai on "Career guidance in Science" in which he elucidated upon the science streams likely to be offering a dynamic work environment filled with numerous specializations and prospects yet to explore.



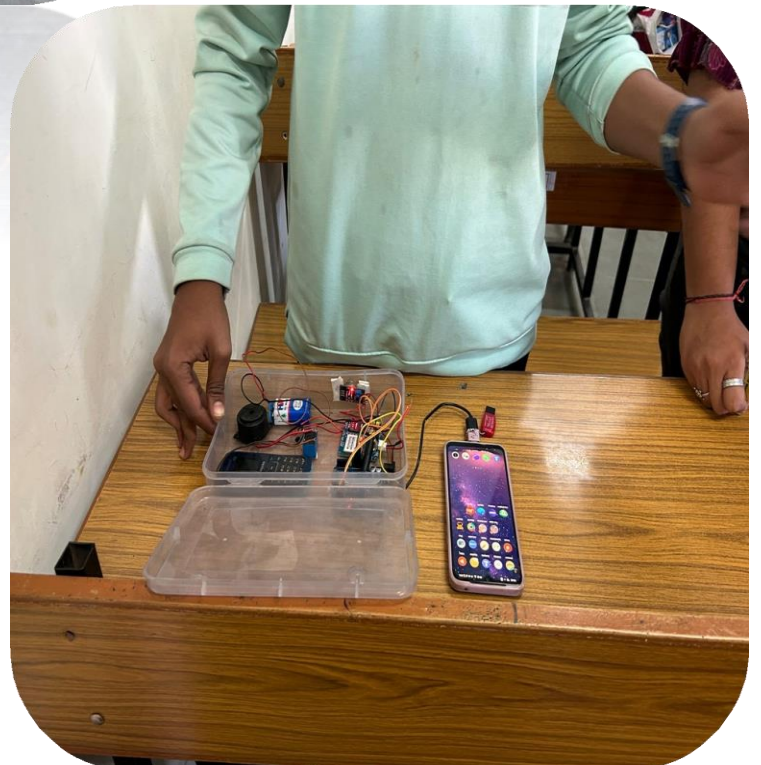




The institute organised two activities for the consecutive fourth day of the event consisting of a seminar and a Science Quiz in order to improve the scientific approach. The first talk of the seminar session was delivered by Dr. J.K. Astik (Sub Auditor, Bureau Veritas, Baroda) on "Quality & Standardization" in which he elaborated on the maintenance of a desired level of quality in a service or product. Second session was dedicated to the 'Science Quiz' to test the knowledge of Science facts and applications of scientific principles among students through relevant queries.









# Workshop on Managerial Skills



Department of Chemical Engineering organized a workshop in association with Pidilite Industries “Best Student Chapter Award” which was focused on the Managerial Skills on 22<sup>nd</sup> February 2023 under the banner of IICChE Student Chapter. Mr. Mahesh Trivedi, Unit Head BEIL, Dahej delivered an illustrative talk on general management. Mr. Brijesh Shah from Asian Paints delivered an awesome speech on “Customer Passion and Aspirations”. Students participated at large from Chemical Engineering and Chemical Technology Department.







# Technical Article

## Wireless Charging: Tomorrow's Technology Is Here to Stay

Let us take a look at the basics behind the Wireless Technology, some of the recent trends in Wireless Technology and associated electronic parts, immediate and long-term growth prospects along with the potential and extent of this rapidly emerging technology to impact electronic components procurement.



## Wireless Technology 101

How exactly does wireless charging technology work? Let us take one of the commonest consumer products Say for example, a smartphone, in order to illustrate the basics of wireless charging. The process stands enabled through energy transfer (just like regular wired charging) but the key remains in the process which is known as electromagnetic induction.

The wireless charger utilizes an induction coil which generates a magnetic field. This magnetic field transfers energy (without wires) between the induction coil and another coil in the smartphone. The phone gains this transferred electricity through the electromagnetic field that converts the power to electric current and uses it to charge up.

## Consumer Trends and Titbits: Wireless Charging Developments, Benefits of Wireless Charging and More

What are the electronic parts that consumers and customers are going to expect in near future with wireless charging technology? Some companies like Ossia are not at all satisfied after manufacturing small electronic devices, rather their goal is to completely replace wired charging.



Wi-Fi radio frequency networking systems will enable Ossia to wirelessly charge industrial and business equipments, accessories, and other devices. The capability is limited to wireless charging at a distance of about 3 feet as per U.S. Federal Communications Commission (FCC) guidelines but the technology is going to make an inroad into the exciting developments in the next few years.

. Traditional wired charging requires wall sockets, connectors, and other literal openings for dust, dirt, water and other foreign particles. Wireless charging ensures enhanced protection, thanks to the completely closed and secure device design components.

If you think wireless charging is a fad or a fleeting technology, time tells you to think once again. Wireless charging's primary predecessor, traditional inductive charging, have been there all around since the late 20th century. Personal hygiene products (hand-held hair trimmers, electric toothbrushes, etc.) uses inductive charging and now leverage today's advanced systems. Wireless charging is far from a fad – it has come here to stay long.



Ms. Dinal Solanki

Student Sem-8, DEE-SRICT



# ***STUDENT'S CORNER***

## *Wings of Imagination*

*In my world of darkness  
You are the one who guides me into  
the light.*

*I feel like a night sky  
And you become my moonlight.*

*How could you ever think  
Without you I can shine bright.  
How could I ever forget you  
When you are not there by my side.*

*....@Meet Rathod*



Meet Rathod (210102102011)

Chemical Technology





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