

# PHARMA EPISTLE



Dear Readers,

It is with great pride and enthusiasm that we present the latest edition of our college magazine. This publication stands as a reflection of the intellectual vibrancy, creative expression, and collective spirit that define our academic community. Within these pages, you will encounter a rich and diverse compilation of articles, narratives, and artistic contributions that capture the essence of our students' and faculty's experiences, perspectives, and achievements.

The magazine serves as a meaningful platform for the exchange of ideas and the celebration of talent. It brings together voices from across the campus, offering insights that are both engaging and thought-provoking. As you navigate through this edition, we invite you to appreciate the depth of thought and originality that each contribution embodies.

In an era characterized by rapid digital communication, this magazine reaffirms the enduring significance of reflective writing and creative exploration. It encapsulates the moments, milestones, and aspirations that shape our institution and strengthen our shared identity.

We extend our sincere appreciation to the editorial team, contributors, and all those involved in the creation of this edition. Your dedication, effort, and commitment have been instrumental in bringing this publication to fruition. We hope this edition informs, inspires, and resonates with every reader, serving as a testament to the dynamic and evolving spirit of our college.

**HAPPY READING !**

Warm Regards,

**Sakshi Chauhan**

Editor

I.T.S College of Pharmacy

## VISION

To be a leading institution in Pharmaceutical education and research, committed to nurturing innovative and compassionate healthcare professionals through excellence in teaching, research and community engagement

## MISSION

**Achieving Academic Excellence:** To excel in Pharmaceutical education through innovative teaching methods that inspire a deep understanding of the subject

**Building a Strong Knowledge Foundation:** To equip students with robust foundational and conceptual knowledge and subsequently preparing them to meet current and future challenges in the field of Pharmacy

**Cultivating Ethical Professionals:** To nurture responsible pharmacist with strong value system and professional integrity essential for success in diverse practice settings

**Advancing Pharmaceutical Sciences:** To contribute to the field of Pharmaceutical sciences through innovative research and continuous professional development, ensuring our students and faculty remain at par with the industry

**Leadership Development:** To foster strong leadership qualities in students by creating a positive and inclusive learning environment that encourages growth and collaboration

**Serving the Community:** To actively contribute to the well-being of the community through dedicated service, outreach initiatives and a commitment to public healthcare system

### Program Educational Objectives (PEOs)

- To produce pharmacists with strong fundamental concepts and in-depth technical knowledge in pharmaceutical sciences.
- To equip the students with concepts from various fields of pharmacy so that they can face challenges in the area of health sciences.
- To facilitate them to be good pharmacists by strengthening their human values, professional ethics and communication skills and to make them work effectively as a team.
- To train the students and to develop a mind frame to undertake research for developing new drugs to cure and prevent diseases for serving the society.
- To encourage them to take part in lifelong learning process to be highly productive and effective pharmacists.

## Arts Corner



**Ananya Tiwari**

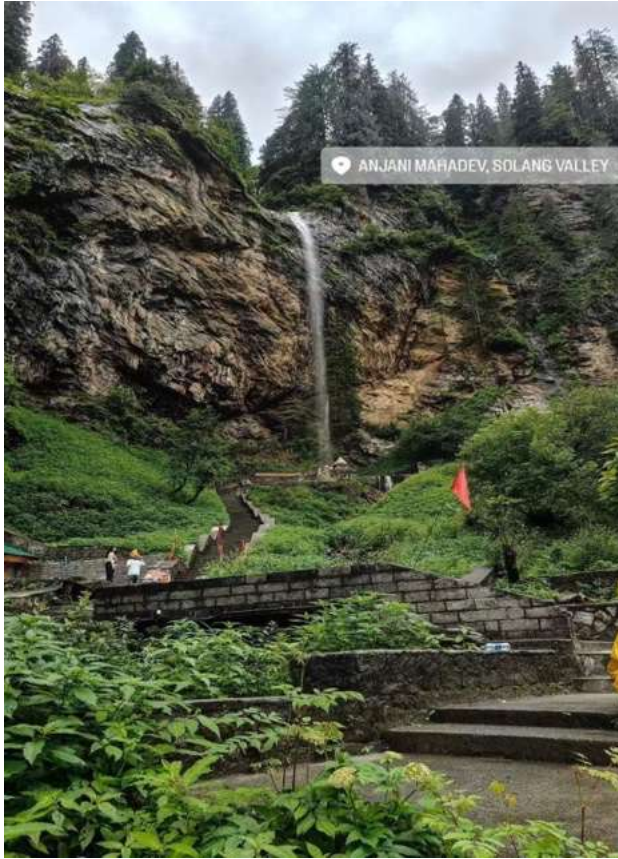
**B.Pharm 1<sup>st</sup> Year**



**Kajal Sharma**

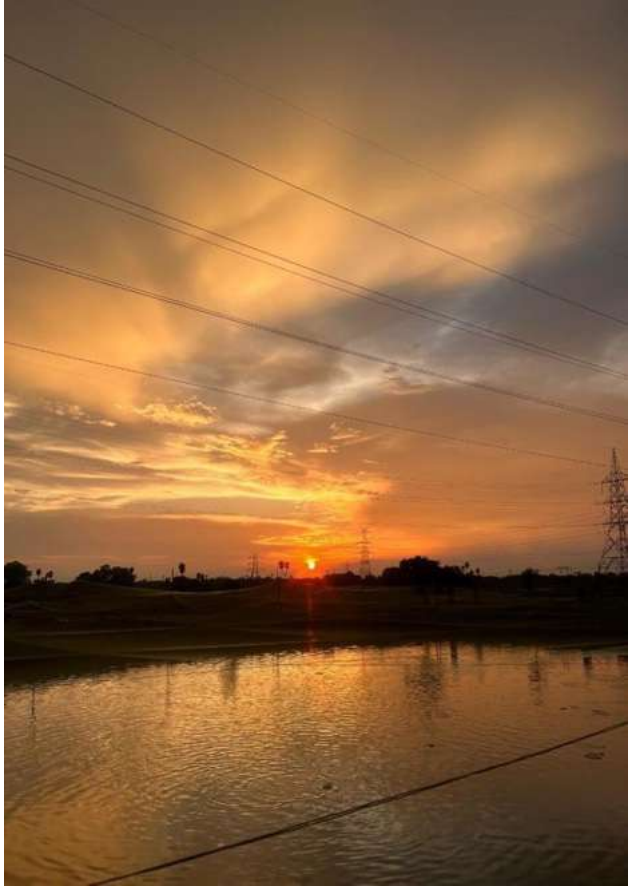
**B.Pharm 1<sup>st</sup> Year**

# Photography



**Karan Mehra**

**B.Pharm 1<sup>st</sup> Year**



**Harsh Raj**

**B.Pharm 1<sup>st</sup> Year**



**Abhishek Tyagi**

**B.Pharm 1<sup>st</sup> Year**

## Poetry for all

### “उड़ान”

रोक सको तो रोक लो, ये ख्वाब ऊँचे हैं,  
हर पन्ना एक नई जिंदगी है।  
जो आज पसीना बहा रहा,  
जीत उसी की कहानी है।  
रात-दिन जो मेहनत लगायेगा,  
वही कल सफलता को पायेगा।  
विद्यार्थी जीवन हर किसी का कठिन है,  
उसे सफलता ही ले जायेगा।

**Jayant Tomar**

**B.Pharm 3<sup>rd</sup> Year**

### “वक्त”

वक्त कभी ठहरता नहीं,  
बस चलता ही जाता है।  
हर पल कुछ सिखाकर,  
आगे बढ़ता जाता है।  
जो आज है, कल नहीं होगा,  
ये सच सबको समझाता है।  
इसलिए हर लम्हे को जी लो,  
यही जिंदगी का असली फलसफ़ा कहलाता है।

**Nimisha Agarwal**

**B.Pharm 2<sup>nd</sup> Year**

# Science Corner

## 1. Pharmacogenomics: The Future of Personalized Medicine

Pharmacogenomics is an emerging field that studies how an individual's genetic makeup influences their response to drugs. This innovative approach aims to personalize medical treatment, ensuring that patients receive the most effective medications with minimal side effects.

Traditionally, medicines are prescribed based on general clinical guidelines, which may not work equally well for everyone. Variations in genes can affect how drugs are absorbed, metabolized, and utilized in the body. As a result, a medication that is effective for one patient may be less effective or even harmful to another.

Pharmacogenomics addresses this challenge by analyzing a patient's genetic profile to guide drug selection and dosage. This leads to improved treatment outcomes, reduced trial-and-error prescribing, and a lower risk of adverse drug reactions. It is particularly beneficial in areas such as cancer therapy, cardiovascular diseases, and mental health treatment.

Despite its potential, the widespread application of pharmacogenomics faces challenges such as high costs, limited awareness, and the need for advanced infrastructure. However, ongoing research and technological advancements are gradually overcoming these barriers.

In conclusion, pharmacogenomics represents a significant step toward precision medicine. By tailoring treatments to individual genetic profiles, it has the potential to revolutionize healthcare and improve patient outcomes in the future.

**Sarthak Tyagi**

**B.Pharm 3<sup>rd</sup> Year**

## **2. mRNA Vaccines: A New Era in Medicine**

Messenger RNA (mRNA) vaccines have emerged as a groundbreaking innovation in modern medicine, especially highlighted during the COVID-19 pandemic. Unlike traditional vaccines, which use weakened or inactivated pathogens, mRNA vaccines work by instructing cells to produce a protein that triggers an immune response. This approach enables the body to recognize and fight infections more effectively.

The major advantage of mRNA vaccines lies in their rapid development and high adaptability. Scientists can quickly modify the genetic sequence to target different diseases, making this technology highly versatile. Beyond infectious diseases, researchers are now exploring the use of mRNA vaccines in treating conditions such as cancer, where they can be designed to target specific tumor cells.

Additionally, mRNA vaccines have shown strong efficacy and safety profiles, supported by advanced research and clinical trials. Their production process is also more streamlined compared to conventional vaccine methods, allowing faster large-scale manufacturing.

However, challenges such as storage requirements, distribution logistics, and long-term data are still being addressed. Despite these limitations, ongoing advancements are continuously improving the stability and accessibility of mRNA-based treatments.

In conclusion, mRNA vaccine technology represents a significant shift in medical science. Its potential to address a wide range of diseases marks a promising future for personalized and effective healthcare solutions.

**Yashvi Gupta**

**B.Pharm 2<sup>nd</sup> Year**