



# ST PAULS PULSE

A Quarterly Newsletter

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PUBLISHER

 **St. Pauls**  
College of Pharmacy

Approved by PCI and Affiliated to Osmania University, Hyderabad.  
Accredited by NBA-UG Program, NAAC A+ Grade,  
Recognition of College under Section 2(f) of the UGC Act 1956,  
UGC Autonomous Institution

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# ST PAULS PULSE

*An SPLP Belonging*

## ABOUT THE INSTITUTE

St. Pauls College of Pharmacy (Autonomous) was established in 2007, approved by the Pharmacy Council of India (PCI), New Delhi, and affiliated with Osmania University, Hyderabad. The college is situated on a serene and beautiful campus that imparts quality education and fosters professional growth. SPLP has been accredited by NAAC A+ Grade with 3.49 CGPA (A. Y. 2021-22 to 2026-27), NBA for B. Pharmacy course for the period of three years (2021-22 to 2023-24), UGC Autonomous Institution and recognized under Section 2(f) of UGC Act, 1956.

SPLP is an ISO-9001:2015 certified institute and offers both UG and PG programs with an approved intake of 180 + students each year as follows: 100 Intake in B. Pharmacy (four years), 42 intake in M. Pharmacy (two years) in Pharmaceutics (15 seats) and Pharmaceutical Analysis (15 Seats), Pharmacology (12 Seats) 30 intake in Pharm. D (six years) and 10 seats in Pharm. D (PB) (three years).

The institute has established MoUs with Hyderabad's leading hospital Krishna Institute of Medical Sciences (KIMS) and various Pharmaceutical Industries, Research Labs, Universities, and Educational Institutions (National & International). The college has consistently provided excellent credentials in the field of Pharmacy Education with a clear focus on enthusiastic learning environment and state-of-the-art infrastructure.



# HIGHLIGHTS OF INSTITUTE

- **3** Ideas approved by MSME Idea Hackathon 3.0 Women under “Agriculture and Health Sector” - granted amount worth **Rs. 42.25 lakhs.**
- UGC Autonomous status
- Green Rankings 2023 - Grade A, Gold Band
- NAAC Accredited A+ Grade with 3.49 CGPA
- NBA Accredited Institution (UG Program)
- Recognized as MSME Host Institute (HI) Business Incubator (BI) since 2023.
- CPCSEA approved Institutional Animal Ethical Committee (IAEC)
- The Institute was recognized by the University Grants Commission (UGC) under section 2 (f) of the UGC Act 1956.
- Institutions Innovation Council (IIC) **3 Star** rating for the IIC Calendar Year 2021-2022
- Institutions Innovation Council (IIC) **3.5 Star** rating for the IIC Calendar Year 2022-2023
- Ratified Ph.D supervisors from OU.
- All the faculties are registered with the State Pharmacy Council as Pharmacists.
- All the faculties have professional societies life memberships - Indian Pharmaceutical Association (IPA), Association of Pharmaceutical Teachers of India (APTI), and Association of Pharmacy Professionals (APP)].
- ISO Certified Institution
- Green Clean & Serene Campus
- Successful completion of **13 batches of B. Pharmacy, 11 batches of M. Pharmacy, 3 batches of Pharm. D & Pharm. D (PB)**
- Our students are university toppers with 91% results
- NIPER -2019, All India – 1st Rank
- GPAT -2019, All India – 7th Rank
- TSPGECET-2019 – State 1st Rank
- TSPGECET-2020 – State 6th Rank
- TSPGECET-2021 – 42 Students Qualified
- MoU with KIMS & OZONE Hospitals, Hyderabad
- 30 Functional MoUs with various Pharma Industries, universities & State Government Research Organizations
- One of the top IPA-SF student chapter in India
- Far ahead in crisis management during the pandemic ( 2019-21)
- Significant contributions to communal services from Pharm.D & other departments
- Placements at leading Multinational Pharma & Pharma-IT companies
- Successful Conduction of National & International level competitions for faculty and students
- Student governance & student-centric education
- Active NSS cell
- Strong Mentoring system
- Research and Innovation Eco-System
- Organization of need-based workshops, conferences & seminars (blended)



# VISION AND MISSION

## VISION

To be the best institution in the field of pharmacy by providing excellent education with the aim to achieve overall development of the students, to cater the needs of profession and society.

## MISSION

To train and develop the students to emerge as pharmacists through innovative teach-learning and research with the objective of student centric education.

## QUALITY POLICY

Nurturing the students with quality education and overall development in Pharmacy and allied fields through dedicated faculty and state-of-art infrastructure.





# EDITORIAL BOARD

- Editor in Chief : Dr. Kiranmai Mandava, Principal,  
St Pauls College of Pharmacy.
- Associate Editors : Mrs. S. Irene Neeraja rani  
Mr. Narsimha Rao
- Assistant Editor : Dr. Deepika . B  
Mrs. Naga Haritha

## STUDENT EDITORIAL MEMBERS

S NO.	STUDENT	COURSE & YEAR
1.	B. PAVANI	PHARM D II YR.
2.	G. CHETANA	PHARM D II YR.
3.	S. AKSHAYA	PHARM D II YR.
4.	G. PRANEETHA	PHARM D II YR.
5.	Y. RISHITHA	PHARM D II YR.
6.	B. JAYA KEERTHANA	PHARM D II YR.
7.	B. GUNABHIRAM	PHARM D II YR.
8.	ALI	PHARM D II YR.
9.	D. PRANAV	PHARM D II YR.



## PHARMACY 4.0: SHAPING THE FUTURE OF HEALTH CARE WITH AI, ML, AND IOT



**Dr. Kiranmai Mandava**  
**Principal**

The rapid evolution of technology is redefining healthcare and pharmacy, ushering in a new era known as Pharmacy 4.0. Inspired by Industry 4.0, this visionary concept embodies the integration of Artificial Intelligence (AI), Machine Learning (ML), and the Internet of Things (IoT) to create a multidisciplinary and interconnected future. This transformation is not merely a technological advancement; it is a paradigm shift that demands collaboration across disciplines to drive innovation and deliver patient-centric solutions.

**The Power of Pharmacy 4.0:** Pharmacy 4.0 leverages cutting-edge technologies to revolutionize key areas of pharmaceutical practice and healthcare:

1. **AI in Personalized Medicine:** AI enables precise patient profiling, optimizing drug therapies based on genetics, lifestyle, and environmental factors. This ensures personalized treatment plans with higher efficacy and reduced side effects.
2. **ML in Drug Discovery:** Machine Learning accelerates drug research by identifying potential compounds and predicting outcomes, significantly reducing the time and cost of development.
3. **IoT in Real-Time Monitoring:** IoT-powered devices enhance patient care through real-time monitoring, automating medication dispensing, and providing critical data for healthcare professionals to make timely interventions.
4. **Smart Manufacturing:** In pharmaceutical production, IoT sensors and AI-driven automation streamline processes, ensure quality control, and minimize human error.

### **Conference Highlights: A Collaborative Vision for the Future**

The recently concluded conference, “Pharmacy 4.0: Integrating AI, ML & IoT for a Multidisciplinary Future”, held on December 6th and 7th, marked a significant milestone in the journey toward this new era. The event brought together an esteemed gathering of experts, academicians, researchers, and students, representing a wide array of disciplines, to discuss and explore the transformative potential of these technologies.



### **Key sessions and discussions included:**

- **Insightful Keynote Addresses:** Delivered by leading experts in pharmacy and technology, shedding light on the practical applications and future possibilities of AI, ML, and IoT.
- **Innovative Research Presentations:** Researchers showcased groundbreaking studies on how AI and IoT are enhancing pharmaceutical care, from improving adherence to optimizing manufacturing.
- **Engaging Panel Discussions:** Multidisciplinary panels emphasized the need for collaboration among pharmacists, data scientists, engineers, and healthcare professionals to build a smarter healthcare ecosystem.

### **The Principal Message: A Call to Collaborate**

Pharmacy 4.0 is not just about adopting new technologies—it is about reimagining the way we approach healthcare. The success of this transformation hinges on the collective efforts of diverse professionals. Pharmacists must embrace their evolving role as innovators, utilizing AI to optimize medication therapy, ML to predict patient outcomes, and IoT to monitor health in real time.

At the same time, collaboration with data scientists, engineers, and clinicians is essential to ensure that these technologies are implemented effectively and ethically. Together, these stakeholders can develop solutions that are not only innovative but also equitable, improving access to quality healthcare for all.

### **Looking Ahead: Building a Smarter Healthcare Ecosystem**

The journey toward Pharmacy 4.0 is just beginning. As we navigate this digital revolution, it is crucial to prioritize patient safety, data security, and accessibility. By fostering interdisciplinary education and research, we can equip the next generation of healthcare professionals with the skills and knowledge needed to thrive in this connected era.

Pharmacy 4.0 represents an unprecedented opportunity to transform healthcare. With AI, ML, and IoT as our tools and collaboration as our foundation, we can create a future where healthcare is smarter, more efficient, and deeply attuned to individual patient needs. Let us embrace this change, work together, and shape a future where technology and humanity merge to deliver unparalleled care.





# DIRECTOR MESSAGE



**Patron**

**SRI SUDHIR KOTLA**  
**CHAIRMAN & CORRESPONDENT**  
**St. Pauls College of Pharmacy**

It is with great pride and enthusiasm that I extend my heartfelt greetings and invite you to the **PHARMAVRIDDHI@4** Conference, scheduled for 6th and 7th December 2024 at St. Pauls College of Pharmacy, Hyderabad. The theme for this year, “Pharmacy 4.0: Integrating AI, ML & IoT for a Multidisciplinary Future,” reflects our unwavering commitment to fostering innovation and collaboration in pharmaceutical research. Organized in collaboration with IIT-Hyderabad and Smart Lab Tech Pvt. Ltd., this conference promises to be a transformative event, offering a platform to explore the revolutionary impact of advanced technologies such as Artificial Intelligence (AI), Machine Learning (ML), and the Internet of Things (IoT) on the pharmaceutical and healthcare sectors.

In today’s fast-evolving landscape, the integration of AI, ML, and IoT is not a luxury but a necessity to address the growing challenges of the pharmaceutical industry. These technologies are reshaping how we approach drug development, manufacturing, and patient care by reducing turnaround time, optimizing costs, and personalizing medicine.

As the Chairman of St. Pauls College of Pharmacy, my ambition is to elevate this conference as a cornerstone for education and innovation, ensuring that every stakeholder—students, faculty, and industry partners—benefits from this unique learning experience. While traditional curricula provide the foundation, it is equally critical to empower our students with trending skills to navigate and implement these advanced technologies. **PHARMAVRIDDHI@4** is designed to bridge this gap by offering Expert Lectures, Hands-on Training, and Networking Opportunities.

This conference is not just an event—it is a step toward creating a future-ready workforce capable of harnessing emerging technologies to reduce turnaround times, cut expenditures, and enhance global healthcare. It is my vision to see St. Paul’s College of Pharmacy as a hub for multidisciplinary research and innovation, and this conference is a significant stride in that direction.

I invite all of you to join us for PHARMAVRIDDHI@4, where ideas will converge, knowledge will expand, and new horizons will be explored. Let us together shape the future of pharmacy!



## GUEST MESSAGE

### PHARMAVRIDDHI@4.0



#### CO-ORGANIZER

**MR. P. SATYA PRASAD**

**MANAGING DIRECTOR, SMART LABTECH PVT. LTD.**

It is with immense pride and great excitement that I extend my warmest greetings and best wishes for the upcoming PHARMAVRIDDHI@4: Pharmacy 4.0 - Integrating AI, ML & IoT for Multidisciplinary Future conference, organized by St. Paul's College of Pharmacy, in collaboration with IIT-Hyderabad and Smart Labtech Pvt. Ltd.

This conference presents an unparalleled opportunity to explore the cutting-edge advancements in healthcare and pharmacy. As we stand at the intersection of technology and medicine, the integration of Artificial Intelligence (AI), Machine Learning (ML), and the Internet of Things (IoT) is revolutionizing the landscape of pharmacy and healthcare systems. This event is a platform for dynamic discussions, knowledge-sharing, and collaborative efforts to stay ahead of the curve and ensure a multidisciplinary future in line with the National Education Policy (NEP) 2020.

At Smart Labtech, we believe that progress lies in innovation and collaboration. The establishment of SPARPHARM Laboratories with St. Paul's College of Pharmacy is a testament to our commitment to bridging the gap between science and technology, providing the next generation of scientists and professionals with the tools and resources to excel.

I encourage all participants to leverage this unique occasion to not only learn but also contribute ideas, shape partnerships, and contribute to the collective vision of advancing healthcare for a better tomorrow.

I wish the entire team at St. Paul's College of Pharmacy, IIT-Hyderabad, and all involved in organizing this prestigious event the very best. May PHARMAVRIDDHI@4 set new milestones in the integration of technology in pharmacy and inspire a new era of transformative healthcare.

Warm regards,

Mr. Satya Prasad Potharaju







**CO-ORGANIZER**  
**DR. FALGUNI PATI**  
**ASSOCIATE PROFESSOR AND HEAD**  
**Department of Biomedical Engineering**  
**Indian Institute Technology Hyderabad**

In the realm of tissue engineering, 3D bioprinting stands out as a revolutionary technology with immense potential. By allowing precise printing and patterning of cells and matrix materials in three dimensions, 3D bioprinting enables the recreation of tissue structures that closely mimic their natural counterparts. This capability holds the promise of generating tissue-mimetic constructs capable of replicating the functions of specific tissues within the body.

At our lab, we've been exploring a biomimetic approach to 3D bioprinting, which involves mimicking the intricate structure and organization of native tissues. One key aspect of our approach is the utilization of decellularized tissue matrix bioink, which provides a natural scaffold rich in extracellular matrix components necessary for cell adhesion, proliferation, and differentiation.

During my talk, I will delve into the various modalities of bioprinting, each with its unique mechanisms and operations. By discussing the differences between these modalities, attendees will gain a comprehensive understanding of the bioprinting landscape and the specific advantages each technique offers. Furthermore, I'll share insights into our ongoing research projects at the lab, particularly focusing on our use of extrusion-based 3D bioprinting. This method allows for precise deposition of bioink materials, enabling the creation of complex tissue constructs with tailored properties. Moreover, I'll highlight some of our translational works that are progressing toward clinical trials. These projects represent the culmination of our efforts to bridge the gap between cutting-edge research and real-world applications, with the ultimate goal of developing novel tissue-engineered therapies to address clinical needs.

Warm regards,  
Dr. Falguni Pati





## GUEST MESSAGE

**PHARMAVRIDDHI@4**



**Dr. Promit Ray**

**Head of Data Science at CLADE GmbH**

**Chief of AI at AIQ Europe GmbH**

Artificial Intelligence (AI) is emerging as a strategic driver in bioanalytics, revolutionizing pharmaceutical R&D by leveraging data science insights. By integrating AI, researchers can analyze complex datasets from bioanalytical studies, accelerating the identification of biomarkers, optimizing assay development, and improving the prediction of drug efficacy and safety. Machine learning models process high-dimensional data with unparalleled precision, enabling faster, data-driven decision-making and reducing the time and cost of drug development. This strategic use of AI empowers pharmaceutical R&D to adopt a more proactive and predictive approach, enhancing innovation and patient-centric outcomes.

The transformative impact of AI extends to areas like precision medicine and high-throughput screening, where advanced algorithms uncover patterns in biological data that traditional methods often overlook. Challenges such as handling data heterogeneity and ensuring regulatory compliance are being addressed with AI-driven frameworks, fostering reliable and reproducible outcomes. As part of the Pharmacy 4.0 paradigm, AI in bioanalytics exemplifies a multidisciplinary future, integrating data science, advanced bioanalytical tools, and pharmaceutical innovation to redefine drug discovery and development processes.

Warm regards,  
Dr. Promit Ray





**Dr. Mark R. Prausnitz**  
**Georgia Institute of Technology**  
**Atlanta, Georgia, USA**

Advances in biomedical micro technologies are poised to revolutionize healthcare by integrating cutting-edge innovations in drug delivery and diagnostics. Many tissue barriers, which limit access to the body, exist on a micron length scale. To overcome these challenges, microneedle technologies have been developed to selectively cross these barriers in a minimally invasive manner, enhancing drug delivery and expanding the scope of medical applications.

This presentation highlights the evolution of microneedle technologies, showcasing their impact in various clinical settings. Microneedle patches have simplified vaccination procedures, as demonstrated in clinical trials for influenza and measles/rubella vaccines. Additionally, these technologies have been adapted as electrodes for an ultra-low-cost electroporation method utilizing piezoelectric devices to deliver DNA vaccines effectively.

In dermatological applications, microneedles have been incorporated into millimeter-scale STAR particles, significantly improving drug delivery over large skin areas. The potential of microneedles extends further with their use “in reverse” to collect interstitial fluid from the skin, presenting an innovative approach for biomarker analysis. Furthermore, hollow microneedles have been engineered for targeted drug delivery to the eye, leading to the development of an FDA-approved product for treating ocular inflammation.

Best regards,  
Mark R. Prausnitz, PhD  
Georgia Institute of Technology  
Atlanta, Georgia, USA



# GUEST MESSAGE

## PHARMAVRIDDHI@4.0



**Dr. Janardhan Sridhara**  
**Data Science Lead**  
**Digital Process solutions**  
**Dr. Reddys Laboratories**

Dear Participants,

Welcome to the International Conference on ‘Pharmacy 4.0: Integrating AI, ML & IoT for a Multidisciplinary Future.’ It is a privilege to explore the transformative impact of AI and ML on pharmacy, from AlphaFold's Nobel Prize-winning protein predictions to quantum computing in drug discovery. As we delve into the era of Pharmacy 4.0, AI and ML stand at the forefront of innovation, offering unprecedented opportunities to revolutionize drug discovery, development, manufacturing, clinical research, and patient care. These technologies empower us to analyze vast datasets and predict outcomes with remarkable accuracy.

To the students and budding researchers, I urge you to embrace this exciting journey with enthusiasm and curiosity. Your innovative ideas and relentless pursuit of knowledge are the driving forces that will shape the future of pharmacy. Every challenge is a stepping stone to success. Collaborate, experiment, and never hesitate to push the boundaries of what is possible. Together, let's harness AI and ML to create a multidisciplinary future that benefits society.”

Best regards,

Dr. Janardhan Sridhara





## PHARMAVRIDDHI@4.0



**Sri Venkata Sri Krishna Rayasam**  
**General Manager, Q.C.**  
**Biological E Ltd, Hyderabad**

The advent of Pharmacy 4.0 is transforming microbial quality testing and compliance through the integration of advanced technologies like Artificial Intelligence (AI), Machine Learning (ML), and the Internet of Things (IoT). Traditional microbial testing, often time-consuming and error-prone, is being revolutionized by automation and real-time monitoring. AI-powered algorithms now enable predictive analysis of contamination risks, while IoT-based smart sensors ensure continuous environmental monitoring of critical parameters like temperature, humidity, and particle counts. These advancements enhance accuracy, reduce testing timelines, and streamline adherence to Good Manufacturing Practices (GMP).

Automation in microbial quality testing also extends to compliance management, with cloud-based systems providing real-time data analytics and audit-ready documentation. Robotics and digital twins are optimizing aseptic manufacturing by minimizing human intervention, lowering contamination risks, and ensuring sterility. Additionally, blockchain technology is being explored for secure documentation, enhancing transparency and regulatory trust. These innovations not only improve operational efficiency but also align with the Pharmacy 4.0 vision of interconnected, intelligent systems driving quality, compliance, and patient safety in pharmaceutical manufacturing.

Best regards,  
Sri Venkata Sri Krishna Rayasam



# GUEST MESSAGE

## PHARMAVRIDDHI@4.0



**DR.DAMODHARAN M**  
**CHIEF QUALITY OFFICER & HEAD**  
**SAI LIFESCIENCES LTD, HYDERABAD**

Artificial Intelligence (AI) is revolutionizing quality and regulatory management in the pharmaceutical industry, offering unparalleled opportunities to enhance compliance, efficiency, and decision-making. AI-driven tools can analyze vast datasets to predict quality risks, optimize manufacturing processes, and ensure adherence to regulatory guidelines. Machine learning algorithms are transforming document review and submission processes, streamlining compliance with global regulatory frameworks. These advancements not only reduce manual workloads but also improve accuracy, consistency, and response times in addressing regulatory requirements.

However, the integration of AI into quality and regulatory management is not without challenges. Issues such as data privacy, algorithm transparency, and regulatory acceptance of AI-generated outcomes present significant hurdles. Ensuring that AI systems meet stringent validation and compliance standards adds complexity to implementation. Despite these challenges, the potential of AI to transform quality and regulatory practices aligns with the principles of Pharmacy 4.0, driving innovation and creating a framework for more agile, data-driven regulatory processes in the future of pharmaceutical manufacturing.

Warm regards,  
Dr.Damodharan M  
Chief Quality Officer & Head  
Sai LifeSciences Ltd, Hyderabad



# GUEST MESSAGE

## PHARMAVRIDDHI@4.0



**Dr. Nagarajan Ganapathy**  
**Assistant Professor, Dept. Of Biomedical Engineering**  
**IIT-Hyderabad**

The integration of Artificial Intelligence (AI) and advanced signal processing is driving a new era of innovation in wearable health monitoring devices. These next-generation devices leverage AI algorithms to analyze complex physiological signals in real-time, enabling accurate tracking of parameters such as heart rate, respiratory rate, blood pressure, and glucose levels. Advanced signal processing techniques ensure noise reduction, feature extraction, and data optimization, providing reliable and actionable insights for personalized healthcare management.

These smart wearables are transforming healthcare delivery by facilitating early detection of medical conditions, remote patient monitoring, and continuous health tracking. Coupled with Internet of Things (IoT) connectivity, they enable seamless data transmission to healthcare providers, enhancing decision-making and patient outcomes. This confluence of AI and signal processing not only ensures precision and scalability but also aligns with the vision of Pharmacy 4.0, fostering multidisciplinary innovation and reshaping the future of digital health.

Warm regards,  
Dr. Nagarajan Ganapathy  
Assistant Professor, Dept. Of Biomedical Engineering  
IIT-Hyderabad







**Dr. Ajit Singh, Ph.D.**  
**Founder & CEO, CliMed & Curio, India**

It is a great privilege to be a part of the conference “Pharmacy 4.0: Integrating AI, ML & IoT for a Multidisciplinary Future,” organized by St. Pauls College of Pharmacy, Hyderabad, in collaboration with the Department of Biomedical Engineering, IIT-Hyderabad. This event exemplifies the spirit of innovation and collaboration necessary to shape the future of healthcare.

The objectives of this conference – staying ahead of emerging advancements, adopting a multidisciplinary culture in alignment with NEP 2020, and bridging the gap between pharmaceutical sciences and emerging technologies – are not just timely but essential. Today, the convergence of AI, ML, and IoT with pharmacy opens new avenues for precision medicine, efficient drug delivery systems, and patient-centric care.

Through such multidisciplinary initiatives, we foster an ecosystem where academia, industry, and technology seamlessly converge to redefine healthcare. This conference provides an exceptional platform for thought leaders, researchers, and practitioners to exchange ideas and build networks that will drive meaningful innovations.

I commend the organizers for this forward-thinking initiative and urge all participants to embrace the opportunities to learn, collaborate, and contribute to transforming the healthcare landscape. Together, let us pave the way for a smarter, more efficient, and patient-focused future.

Warm Regards,

Dr. Ajit Singh, Ph.D.

Founder & CEO, CliMed & Curio, India



## GUEST MESSAGE

### PHARMAVRIDDHI@4.0



**Dr. Prakash Katakam**  
Founder, 3DFying, Hyderabad

Dear Esteemed Delegates, Innovators, and Visionaries, it is a true honor to extend my warmest greetings and best wishes for the upcoming PHARMAVRIDDHI@4 conference, with the inspiring theme "Pharmacy 4.0: Integrating AI, ML & IoT for Multidisciplinary Future." Organized by St. Paul's College of Pharmacy in collaboration with IIT-Hyderabad and Smart Lab Tech Pvt. Ltd., this event represents an important milestone in shaping the future of pharmacy and healthcare.

As we look ahead to a multidisciplinary future, it is critical to stay at the forefront of these emerging advancements. This conference, with its forward-thinking objectives, aligns perfectly with the vision of 3DFying—a pioneering organization committed to developing personalized and tailor-made formulations to reduce adverse drug reactions and improve patient adherence to therapies.

In line with the National Education Policy (NEP) 2020, we believe in fostering an ecosystem of innovation and multidisciplinary collaboration. At 3DFying, we harness the power of cutting-edge technologies to create individualized pharmaceutical solutions that are safer and more effective. By combining the precision of 3D printing with AI and ML, we are able to design personalized drug delivery systems that optimize patient outcomes and minimize the risks associated with traditional treatments. This approach not only enhances patient safety but also significantly improves adherence to complex therapy regimens. This conference provides an incredible opportunity to bridge the gap between science and technology, and I am confident that the insights shared during PHARMAVRIDDHI@4 will contribute to a future where healthcare is more personalized, efficient, and accessible. I wish all the organizers, participants, and attendees a highly successful and productive conference. Together, let's continue to shape a healthier and more innovative future, where technology and science work hand in hand for the benefit of society.

Warm regards,

Dr. Prakash Katakam

Founder, 3DFying, Hyderabad



## FACULTY MESSAGE



**Mrs E Navya Pravala**  
**Assistant Professor**  
**Department of Pharmacology**

It is with great pride and enthusiasm that I extend my thoughts on Pharma Vridhi 4.0, an innovative initiative centered on the theme of integrating Artificial Intelligence (AI), Machine Learning (ML), and the Internet of Things (IoT) into the pharmaceutical landscape. As a Stage Committee Member for this significant event, I am thrilled to witness how these transformative technologies are reshaping the future of healthcare and pharmacy.

Pharma Vridhi 4.0 serves as a platform to explore how AI and ML are revolutionizing drug discovery, precision medicine, and predictive analytics, while IoT is enabling smarter healthcare systems and enhanced patient care. The convergence of these technologies is not only bridging gaps in healthcare but also paving the way for sustainable and efficient pharmaceutical practices. This event is a testament to our collective vision of integrating innovation with education, empowering students, researchers, and professionals to embrace technology-driven advancements in their journey toward excellence.

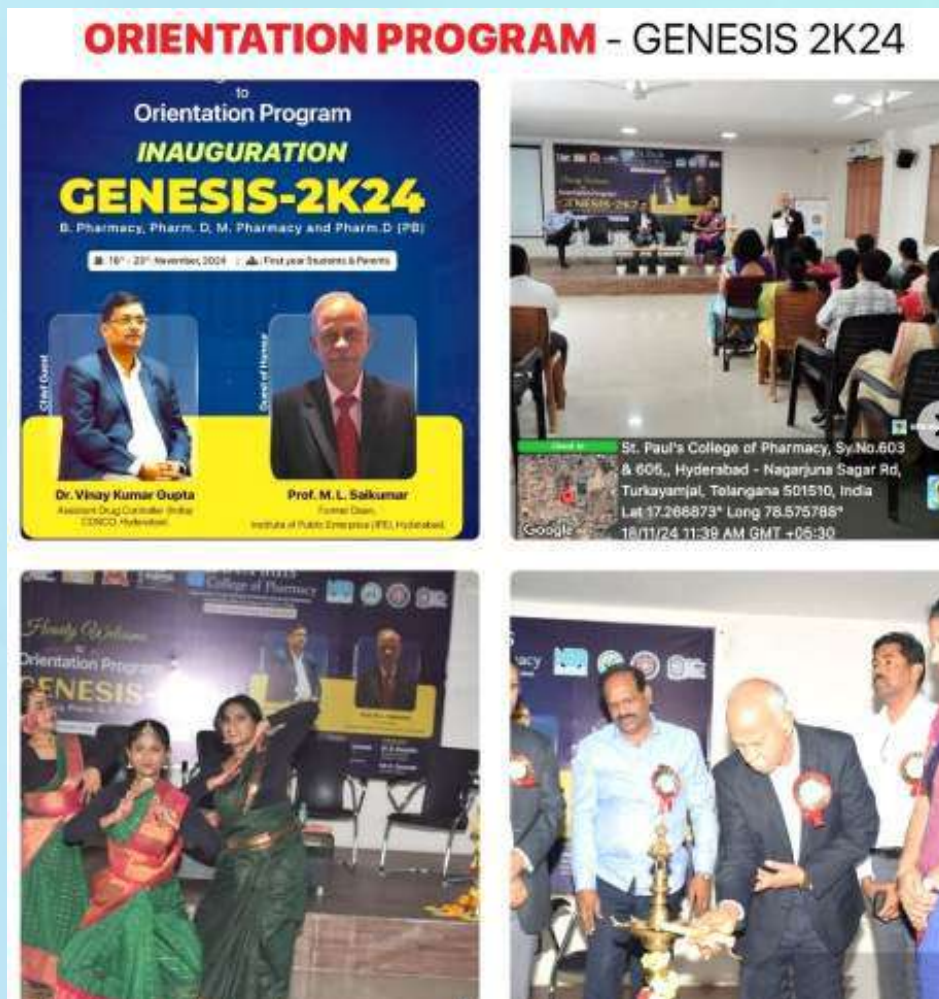
Let us leverage this opportunity to learn, collaborate, and innovate as we prepare to lead the pharmaceutical industry into a new era of technological breakthroughs.





# BEYOND THE CLASSROOM

## ORIENTATION PROGRAMME - GENESIS 2K24



GENESIS 2K24, a one-week orientation program, was successfully organized at St. Pauls College of Pharmacy, an Autonomous Institution with NBA Accreditation (UG Program) and NAAC A+ (CGPA 3.49), from 18th to 23rd November 2024. The program was meticulously designed to introduce students to the college's academic environment, cutting-edge infrastructure, and abundant professional opportunities in the pharmaceutical field. Through expert-led sessions, interactive workshops, and cultural activities, students gained insights into the vital role of pharmacy in healthcare, while fostering skills such as leadership, teamwork, and communication. Senior students and faculty members actively engaged with the participants, creating a welcoming atmosphere and building a sense of community. The event's success was made possible through the unwavering support of the Management, Principal, Faculty, and senior students, as well as the valuable contributions of invited experts and dignitaries. Their efforts ensured the program was both informative and inspiring, equipping students for their academic journey ahead. GENESIS 2K24 not only set the foundation for academic excellence but also instilled a sense of purpose and belonging, marking the beginning of a promising chapter for the newest members of the St. Pauls College of Pharmacy family.





## INDUSTRIAL INNOVATION EXPOSURE ANALYTICA ANACON PHARMA EXPO 2024

On 28th September 2024, St. Pauls College of Pharmacy organized an educational visit to the Analytica Anacon Pharma Expo 2024, held at HITEX, Hyderabad. A total of 44 students from the B Pharmacy and Pharm-D 2nd year classes participated in this premier event, which showcased groundbreaking advancements and opportunities in the global pharmaceutical industry. The visit was aimed at bridging the gap between classroom learning and real-world industry practices, providing students with a comprehensive understanding of the latest innovations in pharmaceutical technology, drug development, clinical research, regulatory frameworks, and emerging industry trends.

The Pharma Expo offered students a unique platform to interact with industry experts, gain insights into cutting-edge technologies, and explore the multifaceted aspects of the pharmaceutical domain. Students had the opportunity to witness live demonstrations of state-of-the-art equipment, attend informative sessions, and network with professionals from leading pharmaceutical companies. This hands-on exposure not only enriched their academic knowledge but also broadened their perspectives on the dynamic and ever-evolving nature of the healthcare and pharmaceutical sectors. The experience left students inspired to pursue excellence in their fields and reinforced their commitment to contributing to the advancement of healthcare. Such initiatives underscore the college's dedication to providing holistic education that equips students with the skills and knowledge necessary to excel in the global pharmaceutical landscape.





## **BOND BEYOND GRADUATION: ALUMNI ENGAGEMENT PROGRAM (GUEST LECTURE SERIES)**

### **Guest Lecturer by Alumni**



We were delighted to host an engaging and highly insightful interactive session titled "Fabrication of Career Through Pharma Competitive Exams" by our distinguished alumnus, Mr. Vakiti Arun Reddy, Assistant Professor at Bharath School of Pharmacy and a proud B. Pharm graduate of St. Pauls College of Pharmacy (2016–2020). The session witnessed an enthusiastic participation of over 100 students, eager to learn and grow. Mr. Arun Reddy, with his profound knowledge and expertise, provided a comprehensive roadmap to help students excel in pharmaceutical competitive exams and carve out successful careers in the field.

The event served as a beacon of inspiration, empowering students to channel their potential and strive for excellence in their academic and professional pursuits. Mr. Reddy's journey from a dedicated student to a respected academician resonated deeply with the audience, leaving them motivated and equipped with actionable insights.

A big shoutout to our dedicated Alumni Committee members, Mrs. P. Naga Haritha and team, for their meticulous efforts in making this event a grand success. Events like these underscore the strength of our alumni network and their commitment to nurturing the next generation of leaders. Here's to many more such inspiring sessions in the future! ✨





# 61st NATIONAL PHARMACY WEEK CELEBRATIONS



## 🏆 National Pharmacy Week 2024 🎯

St. Pauls College of Pharmacy celebrated National Pharmacy Week (NPW) 2024 with a vibrant lineup of intercollegiate events, blending sportsmanship, creativity, and intellectual excellence. The sports segment featured thrilling competitions like volleyball and chess, where teams displayed remarkable skill, teamwork, and determination. Alongside these, creative activities such as painting competitions allowed students to showcase their artistic talents, with many stunning artworks highlighting themes related to pharmacy and healthcare.



The Pharma Quiz was a major highlight, challenging participants' knowledge of pharmaceutical sciences and fostering a competitive yet collaborative spirit among the students.

The celebration was a resounding success, thanks to the visionary leadership of our Chairman & Correspondent, Sri K. Sudhir, and the dynamic guidance of our Principal, Dr. M. Kiranmai. Their unwavering support and encouragement set the stage for a week filled with inspiration and innovation. Special acknowledgment goes to the dedicated faculty members, administrative staff, and student volunteers whose tireless efforts ensured the event's seamless execution. NPW 2024 was a testament to the students' multifaceted talents and underscored the importance of combining academics, creativity, and sports in shaping future pharmacy professionals. ✨





# DIABETES AWARENESS DAY



## Diabetes Awareness Day Observed

On 14th November, St. Pauls College of Pharmacy marked Diabetes Awareness Day with a meaningful and educational event aimed at spreading awareness about diabetes prevention, management, and the importance of maintaining a healthy lifestyle. The program brought together students, faculty, and community members for a series of insightful sessions and interactive activities designed to promote understanding and proactive care.

The event began with informative lectures by healthcare professionals who shed light on the causes, symptoms, and potential risks associated with diabetes. These sessions provided attendees with a comprehensive understanding of how diabetes develops and how it impacts overall health. Workshops followed, focusing on practical lifestyle changes, including the benefits of a balanced diet, regular exercise, stress management, and the importance of regular health check-ups. Participants also had the opportunity to engage in demonstrations of healthy meal preparation and simple exercise routines.

A heartwarming highlight of the day was the sharing of personal experiences by individuals living with diabetes. Their stories illustrated the challenges they face, the coping strategies they've adopted, and the invaluable support of the community in managing the condition. This segment inspired many and reinforced the importance of empathy and collective effort in addressing diabetes.

The event concluded with an interactive Q&A session, where participants clarified their doubts and gained actionable tips from experts. The day emphasized that diabetes, while a global health concern, can be effectively managed through awareness, early intervention, and consistent self-care. It was a resounding reminder that by embracing a proactive approach, individuals can lead fulfilling and healthy lives despite the condition.



## FESTIVAL OF FLOWERS



**"Culture is the widening of the mind and the spirit."**

### **St. Pauls College of Pharmacy Celebrates the Vibrant Bathukamma Festival**

“People without the knowledge of their history, origin, and culture are like a tree without roots” - this sentiment resonated deeply as St. Pauls College of Pharmacy came together to celebrate Bathukamma, the vibrant and symbolic floral festival of Telangana. The event was a true celebration of life, nature, and the feminine spirit, capturing the essence of the rich cultural heritage of the region. Bathukamma, which means "Mother Goddess come alive," is a festival that symbolizes gratitude to nature and the harmonious relationship between humanity and the environment.

The college campus transformed into a sea of colors and flowers as students and faculty participated enthusiastically, creating beautiful floral arrangements that are central to the festival. Traditional songs and dances added to the festive spirit, with everyone joining in to celebrate the culture and unity that Bathukamma promotes. The event served as a platform to deepen cultural roots and appreciate the beauty of tradition while fostering a sense of community bonding.

This grand celebration highlighted the importance of preserving and cherishing our cultural heritage. It was not just a festival but also a vibrant expression of togetherness, respect for nature, and celebration of the feminine energy that sustains life. The joyous atmosphere and active participation from everyone made it a truly memorable occasion, leaving a lasting impression on all who were part of it. 🌸🌟





# THINK HEALTH THINK PHARMACY



**Pharm.D 3rd-year students** of **St. Pauls College of Pharmacy** achieved a remarkable milestone by securing the **First Prize** in the **Short Film Video Competition** held at **Vishnu Institute of Pharmaceutical Education and Research (VIPER)** on **29th November 2024** (Friday).

The competition was conducted as part of an event centered on the theme "**Think Health, Think Pharmacy**," emphasizing the critical role of Pharmacy in promoting health and well-being. Our students showcased exceptional creativity and dedication through their short film, which highlighted the importance of pharmacists in ensuring patient care and the advancement of healthcare practices.

## UDBHAV 24 - PROTOTYPE / PRODUCT EXPO



**Udbhav 24**  
**PROTOTYPE / PRODUCT EXPO**  
8th December 2024  
St. Pauls College of Pharmacy, Autonomous

Themes : Any Sector pertaining to Engineering/Pharmacy/ Management/ Allied areas

Eligibility : Students: B.Tech/M.Tech/B. Pharmacy/Pharm.D M. Pharmacy/MBA/Biotech/Agriculture/Other Allied Fields

Prizes:  
Sri. K. Sudhir  
Sri. T. Raghava Reddy

Convener:  
Dr. M. Kiranmai

Faculty Coordinators:  
Dr. Sushma Tadavadi  
Mrs. P. Nagi Hanitha

Student Coordinators:  
Aashim  
Aashim

Organized by:  
St. Pauls College of Pharmacy

St. Pauls College of Pharmacy (Autonomous), in association with the Institution Innovation Council (IIC) and HIBI-MSME, is thrilled to announce "**Udbhav 24 – Prototype/Product Expo**" - a dynamic and exciting pre-conference event designed to celebrate innovation and ingenuity. This unique platform provides aspiring innovators, researchers, and creators the opportunity to showcase their prototypes and products, bringing their ideas to life and sharing them with a broader audience. This event showcased a celebration of creativity and technological progress. Participants had the chance to highlight their innovations, connect with industry leaders, and become the Voice of Innovation. What's more? Exciting cash prizes 🏆💰 were awarded to the most outstanding entries, making this a golden opportunity for students to turn their passion into recognition and rewards. 🌟



# PHARMACY 4.0: INTEGRATING AI, ML, & IoT FOR MULTIDISCIPLINARY FUTURE (DEC 6-7TH)



## Two-Day International Conference on “Pharmacy 4.0” at St. Pauls College of Pharmacy

St. Pauls College of Pharmacy hosted the highly anticipated Two-Day International Conference on “Pharmacy 4.0 – Integrating AI, ML & IoT for a Multidisciplinary Future” on 6th and 7th December 2024. The event served as a cutting-edge platform, attracting over 950 participants from 46 esteemed institutions spanning 8 Indian states. With a remarkable 250 scientific presentations and 28 prestigious prizes awarded, the conference was a hub for groundbreaking research and innovation. The sessions revolved around the transformative integration of Artificial Intelligence (AI), Machine Learning (ML), and the Internet of Things (IoT) in pharmacy, fostering ideas to revolutionize healthcare and pharmaceutical practices.

The conference featured 7 scientifically enriching sessions, spearheaded by renowned experts, including Dr. Nagarajan Ganapathy, Prof. Mark R. Prausnitz, and other distinguished industry leaders. Their keynote speeches and interactive discussions offered deep insights into the evolving landscape of pharmacy, highlighting how AI, ML, and IoT can empower multidisciplinary advancements. From redefining pharmacy education to enhancing patient care through data-driven solutions, the event emphasized the vast potential of emerging technologies. A heartfelt thank-you goes out to the college management, faculty, students, and volunteers, whose meticulous planning and dedication ensured the conference’s resounding success. This monumental event not only celebrated innovation but also strengthened collaborative efforts toward a technologically advanced future in pharmacy. 🌐💡🌟





## ALUMNI MESSAGE



**B. DIVYASREE**  
**B.PHARM 2009-2013**  
**SPI GLOBAL MEDICAL REVIEWER**

Studying at St. Pauls College of Pharmacy was an exceptional experience that laid a strong foundation for my academic journey. The profound knowledge I gained during my undergraduate studies greatly simplified my postgraduate pursuits. Being associated with the college's excellent faculty and experienced staff was a privilege, and the good rapport I developed with them made learning an enjoyable and seamless process.

The college has significantly evolved since my time as a student. It now hosts numerous Pharmacok programs, conferences, and webinars that provide invaluable insights and awareness about the dynamic field of pharmacy. These initiatives are instrumental in preparing students for a promising career in the pharmaceutical industry.

The faculty's timely management in laboratories, the organization of equipment, and the planning and execution of practicals were exemplary. Every aspect of the learning process was meticulously planned, well-organized, and executed smoothly, ensuring a productive and enriching academic environment.

I am forever grateful to St. Pauls College of Pharmacy for shaping my career and providing me with an enriching educational experience. It is an honor to be an esteemed alumnus of such a prestigious institution. Thank you, St. Pauls, for being the cornerstone of my academic and professional growth!





## UDBHAV 2024 - WINNERS



On December 5th, 2024, St. Pauls College of Pharmacy proudly hosted Udbhav 2024, a vibrant product and prototype expo showcasing groundbreaking ideas and innovative solutions. The event witnessed enthusiastic participation, with 29 teams from 6 institutions presenting their unique prototypes and creative projects. The competitive spirit culminated in the announcement of 3 cash prize winners and 2 consolation prize recipients, celebrating excellence in innovation.

The winners of the event were: S. Manikanta and S. Saipriya (B.Pharm, St. Pauls College of Pharmacy), who secured the first prize of ₹10,000; Ayesha Begum and Imaan Begum (Pharm.D, St. Pauls College of Pharmacy), awarded the second prize of ₹7,500; and Dikshitha and Nithya Sindhuri (B.Tech, BVRI), who claimed the third prize of ₹5,000. Special appreciation was extended to the jury members, patrons, faculty, and dedicated student coordinators for their efforts in making Udbhav 2024 a grand success. The event not only celebrated creativity and ingenuity but also inspired young minds to push the boundaries of innovation. 🌟



# ACHIEVEMENTS

## FACULTY SPOTLIGHT



We are happy to announce that Dr. Deepika B, Associate Professor, Department of Pharmaceutics, has been awarded a Ph.D. in Pharmacy (Pharmaceutics) from Sri Ramachandra Institute of Higher Education and Research (SRIHER), Chennai, Tamil Nadu!

## TRAILBLAZERS OF TOMORROW

ST. PAULS COLLEGE OF PHARMACY is happy to announce 14 of our talented students have been selected for the prestigious **Cell Biology and Neurobiology Course** at **Harvard Scienspur!**

**ST. PAULS PROUDLY ANNOUNCES**

 SYEDA FATIMA SARWAR B. Pharmacy IV Year Sec-B	 HUDA B. Pharmacy IV Year Sec-A	 MOHAMMED ANAS HANZAH B. Pharmacy IV Year Sec-B	 SHREEN BEGUM B. Pharmacy IV Year Sec-B	 K. NISHITHA YADAV B. Pharmacy IV Year Sec-B
 S. CHAITANYA B. Pharmacy IV Year Sec-B	 R. BHAVYA B. Pharmacy IV Year Sec-B	 MOHAMMED RIYAZ B. Pharmacy IV Year Sec-B	 P. LAXMI SUPRIYA B. Pharmacy IV Year Sec-B	 M. LAKSHMI LAVANYA B. Pharmacy IV Year Sec-B
 FATMA UZ ZEHRA B. Pharmacy III Year Sec-A	 S. JYOSHNA B. Pharmacy III Year Sec-A	 B. SATHIRIKA Pharm.D V Year	 V. Snijjan Kumar B. Pharm II Year Sec B	

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**Prestigious Course: Cell Biology and Neurobiology**  
at  
**Harvard Scienspur**  
A. Y. 2024-25





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