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Role Of Artificial Intelligence In Pharmaceutical Sciences

Aditya Paradkar (B.Pharm Final Year)

INTRODUCTION:

In recent years, artificial intelligence (AI) has become the magical tool for the ease of task and labor and pharma sector is no exception. From drug discovery and development to personalized medicine and pharmacy operations, AI is revolutionizing how we approach healthcare and medicine.

1. Drug Discovery and Development

Traditionally, drug discovery has been a time-consuming and costly process, often taking over a decade and billions of dollars to bring a single drug to market. AI significantly accelerates this process by:

- Predictive modeling: AI algorithms analyze vast datasets to predict how different compounds will interact with biological targets. (Ex. Wipro, Kody Technolab)
- Virtual screening: Machine learning helps in identifying promising drug candidates by simulating how molecules bind to receptors.
- Optimization: AI assists in refining drug formulations to improve efficacy and reduce side effects.

Notably, companies like Deep Mind and In-silico Medicine have made headlines with AI-generated drug candidates and protein-structure prediction tools, streamlining the research pipeline.

2. Precision and Personalized Medicine

AI enables a shift from the "one-size-fits-all" approach in medicine to treatments tailored for individual patients. By analyzing a patient's genetic makeup, medical history, lifestyle, and real-time data from wearable devices, It can Predict disease risks, Recommend personalized treatment plans for patients, optimize medication dosages to minimize side effects and maximize effectiveness. This patient-centric approach enhances outcomes and reduces the trial-and-error aspect of prescribing medications.

3. Pharmacy Operations and Automation

Modern pharmacies are increasingly integrating AI to improve workflow efficiency and reduce human error. Key applications include:

- Automated dispensing systems: These systems use robotics and AI to accurately fill prescriptions, reducing wait times and medication errors. (Ex. Pyxis MedStation and Omnicell)
- Inventory management: AI predicts demand trends, helping pharmacies manage stock levels efficiently and reduce waste.
- Chat bots and virtual assistants: These tools offer 24/7 customer support, answer medication-related questions, and provide refill reminders. (Ex. Medibot [Pfizer])

4. Clinical Trials Optimization

Recruiting patients and monitoring clinical trials are major bottlenecks in drug development. AI is helping by Identifying eligible participants using electronic health records and social data, Monitoring patient adherence and responses through wearable devices and mobile apps, analyzing trial data in real-time to detect adverse effects early.

5. Strengthening Pharmacovigilance and Regulatory Compliance

AI aids in monitoring drug safety post-approval by analyzing real-world data from patients, social media, and electronic health records. It helps to Detect adverse drug reactions (ADRs) more quickly, automate reporting processes, predict potential regulatory issues before they arise.

This proactive approach enhances patient safety and ensures regulatory compliance.

CONCLUSION:

AI is changing the pharmaceutical industry by making it possible to get useful information from big, complicated data. For instance, Pfizer worked with IBM Watson to speed up research on cancer treatments, and Novartis uses AI to guess how patients will react to certain drugs and to make manufacturing more efficient. Benevolent AI and other companies are using data-driven tools to find new drug candidates. IBM Watson Health helps doctors make better decisions about how to treat patients. There are still worries about things like data privacy and openness, but AI is proving to be a useful tool for researchers and healthcare professionals, not a replacement for them. It helps them give better, more personalized care.



TECHNICAL ARTICLES

Pharmacological Potential Of Nutraceutical Anurag Borkar & Anurag Wath (B.Pharm Final Year)

INTRODUCTION:

The global nutraceuticals market is projected to surpass \$800 billion by 2030, reflecting a major shift in consumer interest towards natural therapies, functional foods, and preventive health care. As modern medicine continues to explore integrative approaches, nutraceuticals—products derived from food sources with additional health benefits—are gaining significant recognition not only for their nutritional value, but also for their pharmacological potential.

KEY NEUTRACEUTICALS & THEIR PHARMACOLOGICALS BENEFITS:

Curcumin (from turmeric): anti-inflammatory, anti-cancer, neuroprotective

Resveratrol (from grapes): antioxidant, cardioprotective, anti-aging

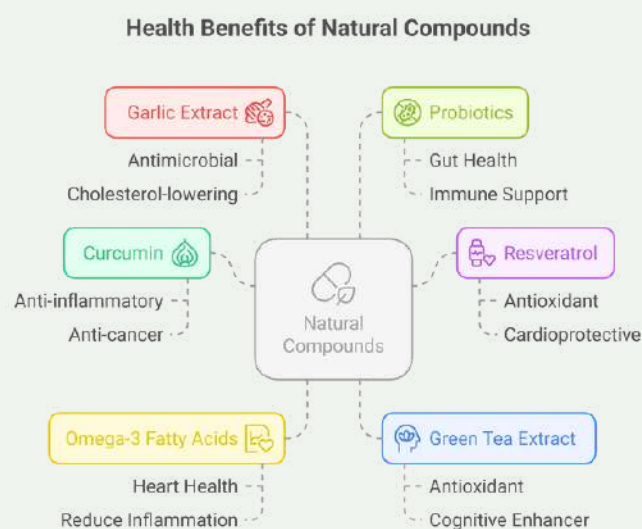
Omega-3 Fatty Acids (from fish oil): improve heart health, reduce inflammation

Green Tea Extract (EGCG): antioxidant, anti-obesity, cognitive enhancer

Garlic Extract (allicin): antimicrobial, cholesterol-lowering

Probiotics: gut health, immune support, anti-allergic action

These compounds are being studied for their role in preventing or managing conditions such as cardiovascular diseases, diabetes, cancer, neurodegenerative disorders, and metabolic syndrome.



APPLICATIONS IN MODERN DRUG DEVELOPMENT

Nutraceuticals are increasingly integrated into drug development pipelines. They serve as:

- Lead compounds for novel drug synthesis
- Adjuvants that enhance drug efficacy or reduce side effects
- Templates for structure-based drug design

Many pharmaceutical companies are now investing in nutraceutical-drug hybrids, aiming to combine the safety of natural products with the potency of conventional drugs.

LIMITATIONS & CHALLENGES

Despite promising benefits, nutraceuticals face several limitations:

- Lack of standardization in active compound concentration
- Poor bioavailability and absorption for many agents
- Limited clinical data and inconsistent regulatory oversight

Risk of contamination or adulteration in unregulated products

These issues highlight the need for rigorous research, clinical validation, and regulatory harmonization to safely harness their full potential

CONCLUSION

Nutraceuticals represent a powerful bridge between nutrition and pharmacology. With ongoing advancements in biotechnology, formulation science, and clinical research, they are poised to play a vital role in preventive medicine and complementary therapy. However, for nutraceuticals to truly transform global healthcare, a more scientific, standardized, and regulatory-driven approach must be adopted. As consumers and practitioners continue to seek holistic health solutions, nutraceuticals are well-positioned to be the next frontier in modern medicine



Integrating The Ayurveda In Modern Pharmaceutical Science A Synergistic Approach For Future Healthcare Ashutosh Agrawal (B.Pharm Final Year)

INTRODUCTION:

Ayurveda is a very old system of medicine that started in India more than 5,000 years ago. It is based on keeping a balance between the body, mind, and soul. Instead of just treating the symptoms of a disease, Ayurveda focuses on finding the root cause and healing the person naturally. It uses herbs, oils, diet, meditation, and exercise (like yoga) to keep people healthy and to treat illness.

Today, many people around the world are becoming more interested in natural and safer ways to treat diseases. At the same time, modern science and pharmaceutical companies are looking at Ayurveda to find new ideas and better ways to make medicines. This is because Ayurvedic herbs like turmeric, ashwagandha, and giloy have strong natural healing powers. These herbs can reduce swelling, boost immunity, help with stress, and improve overall health.

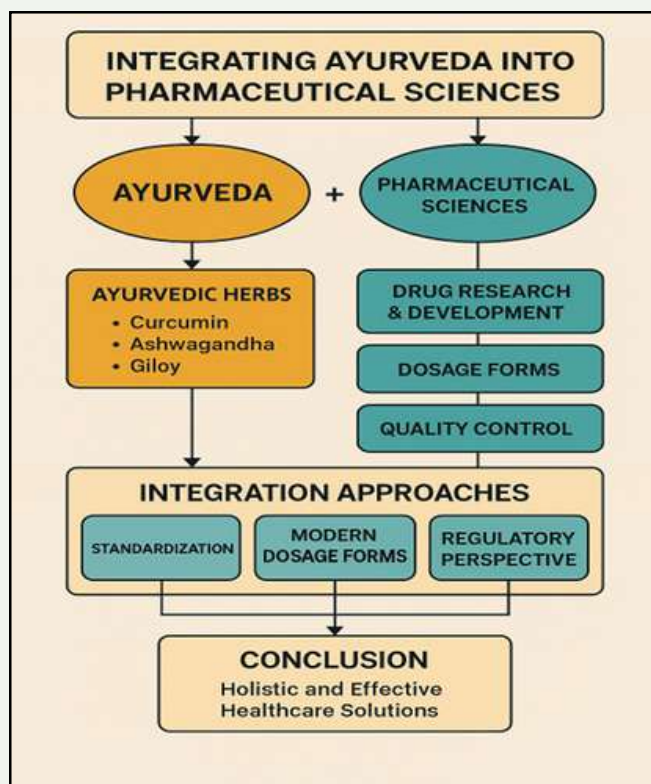
Parameter	Traditional Ayurveda	Modern Pharmaceutical Integration
Dosage Form	Churna, Kashayam, Tailam	Capsules, Tablets, Nano formulations
Quality Control	Sensory and textual checks	HPLC, HPTLC, GC-MS
Clinical Evaluation	Empirical and historical usage	Pre-clinical, clinical trials
Regulation	Ayurvedic Pharmacopoeia	WHO, FDA, AYUSH guidelines

FUTURE PROSPECTS & COLLABORATION:

Emerging tools like AI, molecular docking, and in silico methods are now validating ancient remedies. Cross-disciplinary efforts involving pharmacists, biotechnologists, and Ayurvedic doctors (Vaidas) are vital to bringing Ayurvedic-based drugs into mainstream healthcare.

CONCLUSION:

The fusion of Ayurveda with modern pharmaceutical sciences represents a powerful and promising step toward personalized, safe, and effective healthcare. While Ayurveda offers centuries-old wisdom grounded in natural healing and holistic balance, pharmaceutical advancements provide scientific validation, quality control, and global accessibility. By combining traditional knowledge with modern research tools such as in silico screening, clinical trials, and advanced drug delivery systems, we can unlock the full therapeutic potential of Ayurvedic herbs. With proper standardization, regulatory support, and interdisciplinary collaboration, this integrative approach can lead to the development of innovative medicines that are both patient-friendly and globally accepted.





TECHNICAL ARTICLES

Painless Innovation: The Future of Drug Delivery through Microneedle Asleha Khan & Anushka Awazekar (B.Pharm Final Year)

ARE MICRONEEDLES THE FUTURE OF PATIENT-FRIENDLY DRUG DELIVERY?

Microneedle (MN) technology is a revolutionary approach in the field of drug delivery systems. By penetrating the skin's outer layer without causing pain, MNs offer a minimally invasive, patient-friendly alternative to traditional injections. This review focuses on the various types, materials, mechanisms, advantages, and current applications of MNs in transdermal drug delivery. The article also discusses challenges and future prospects that make MNs a promising tool in modern pharmaceuticals.

MICRONEEDLES: A SMART ALTERNATIVE TO PAINFUL INJECTIONS

Traditional drug delivery methods, especially injections, often cause discomfort, pain, and require trained personnel. To address these limitations, MNs have emerged as a smart innovation. MNs are micron-scale needles that can deliver drugs across the skin without reaching pain receptors, making drug administration nearly painless. The concept bridges the gap between transdermal patches and hypodermic injections.

TYPES OF MICRONEEDLES

Microneedles are categorized based on their structure and function:

- Solid Microneedles: Used to create micro channels in the skin before applying drug formulations.
- Coated Microneedles: The drug is coated onto the surface of solid microneedles.
- Dissolving Microneedles: Made of biodegradable polymer that dissolve after insertion, releasing the drug
- Hollow Microneedles: Similar to traditional needles, they allow liquid drug flow.
- Hydrogel-forming Microneedles: Swell upon insertion and deliver the drug via diffusion.

MATERIALS USED IN MICRONEEDLE FABRICATION

These materials are selected based on biocompatibility, strength, and degradation properties.

- Metals: Stainless steel, titanium
- Polymers: PLA, PVP, PVA, chitosan
- Silicon and glass
- Sugars or carbohydrate-based materials for dissolvable types

MECHANISMS OF DRUG DELIVERY

Microneedles disrupt the stratum corneum barrier without reaching nerve endings. The drug is delivered via one of the following methods:

- Passive diffusion
- Pressure-driven flow (in hollow MNs)
- Polymer matrix dissolution (in dissolving MNs)

APPLICATIONS IN PHARMACEUTICALS

- Vaccination: Influenza, measles, COVID-19 vaccines
- Diabetes Management: Insulin delivery
- Cancer Therapy: Targeted chemotherapeutic delivery
- Dermatological Treatments: Delivery of anti-aging and cosmetic products
- Neurological Disorders: Transdermal delivery of CNS drugs

CHALLENGES & LIMITATIONS

- Limited drug loading capacity
- Mechanical strength for skin insertion
- Stability of formulations
- Scale-up and manufacturing costs
- Regulatory approval hurdles

NEXT-GEN NEEDLES

Microneedles are expected to become an integral part of personalized medicine and wearable drug delivery systems. Innovations like smart MN patches, integrated biosensors, and controlled release devices are under active research. Their potential in gene therapy, vaccines, and chronic disease management remains promising.

LEADING THE WAY TO SAFER & SMARTER DRUG DELIVERY

Microneedle technology represents a paradigm shift in drug delivery systems. Combining patient comfort, improved compliance, and effective therapeutic outcomes, microneedles have carved a niche in modern pharmaceuticals. With continued research and technological advancements, they are poised to become the future of painless drug delivery.



Simulating Human Responses Before Clinical Trials: Revolutionizing Drug Discovery with Emerging Tech

Hutanshu Bawane, Saurabh Shriwas & Siddhant Jain (B.Pharm Final Year)

The drug development pipeline is long, costly, and fraught with failure — particularly due to the translational gap between pre-clinical studies and human trials. To bridge this gap, modern science is leveraging advanced simulation tools and biological mimetics to replicate human physiology in laboratory settings. Technologies such as organ-on-a-chip, in-silico modeling, 3D bio printing, and digital human twins are improving the predictive accuracy of drug safety and efficacy prior to clinical trials. This article explores these revolutionary tools and their implications for the future of pharmacological science.

The traditional pre-clinical model relies heavily on animal studies and 2D cell cultures. Despite being the gold standard for decades, these methods suffer from: low predictive value, ethical concerns, high cost and duration, lack of personalization. Thus, new technologies aim to simulate human responses directly—before exposing humans to untested drugs.

Organ-on-a-chip devices are microfluidic systems that emulate the micro architecture and functions of living organs. They are typically made using polymers like PDMS and lined with human cells, simulating: blood flow, tissue-tissue interfaces, mechanical forces. Lung-on-a chip developed by the Wyss Institute mimics alveolar-capillary interface and breathing motion. It can predict inhalation toxicity far better than traditional tests. It is human relevant models, real-time imaging and monitoring, reduced need for animal use.

In-silico models use computer simulations to predict drug behaviour using mathematical and biological algorithms. It can be use in PK/PD Modeling & Virtual Screening. The tool can be use such as Gastro Plus™, Simcyp™ Simulator, SwissADME. AI models, such as deep learning networks, are trained on vast biological datasets to simulate entire clinical outcomes virtually, reducing the need for Phase 0/1 trials.

3D bio printing allows for the layer-by-layer construction of tissues using bio inks composed of human cells and biomaterials. It can use in Disease modeling, Drug toxicity on specific organs, Testing medical devices. A bio printed liver lobule can mimic hepatic metabolism, enabling early detection of hepatotoxicity that animal models might miss. Challenge may arise such as Vascularization is difficult to replicate, Cell sourcing and viability are limited.

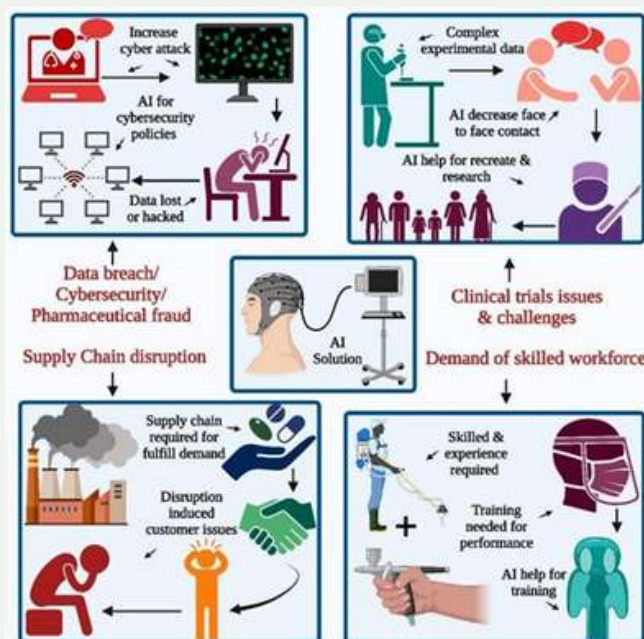
Digital twin is a data-driven, virtual replica of a real person or biological system. It integrates data from: Genomics, Electronic health records, Chronic disease modeling. It is essential for predicting individual drug response, simulating clinical trials on virtual patients, chronic disease modeling (e.g., diabetes, heart failure).

In traditional modeling we use the animal for the trial now in emerging technologies we use the human cells or the digital modeling. The traditional modeling's predictive accuracy is about ~ 10 - 20% which was time consuming and expensive while in emerging technologies the predictive accuracy is increases above ~80% in some systems which is fast working and scalable.

In 2021, FDA accepted organ-on-chip liver data to support IND filing for a liver-targeted drug. EMA supports the use of computational modeling for paediatric drug trials. NCATS (NIH) invests in organ-mimicking systems through the Tissue Chip Program.

In-silico tools reduced the timeline of COVID-19 vaccine development by modeling the spike protein and predicting immune response without extensive animal data.

Emerging simulation technologies are transforming how pre-clinical evaluation is conducted. These tools not only promise better safety and efficacy outcomes, but also champion ethics, efficiency, and innovation in pharmaceutical R&D. For pharmacy students, understanding and mastering these technologies is vital for the future of precision medicine and translational research.





TECHNICAL ARTICLES

3D-Printed Personalized Medications: A Detailed Overview

Kashish Jagwani (B.Pharm Final Year)

WHAT ARE 3D-PRINTED MEDICATIONS?

3D-printed medications are pharmaceutical formulations created using additive manufacturing techniques, where drugs are printed layer by layer to form a precise dosage form. Unlike traditional mass-produced tablets or capsules, 3D printing allows for personalization, customization, and complex drug release profiles that were previously difficult or impossible to achieve.

The U.S. FDA approved the first 3D-printed drug (Spritam, for epilepsy) in 2015, marking a significant milestone. Since then, research and application in this space have accelerated rapidly.

HOW DOES IT WORK?

The process involves using a digital blueprint (CAD file) to instruct a printer to deposit pharmaceutical materials in a highly controlled manner. Common 3D printing techniques in pharmaceuticals include:

Fused Deposition Modeling (FDM)

- Heated drug-polymer filaments are extruded and layered.
- Ideal for heat-stable drugs.
- Allows flexible shapes and dosages.

Inkjet Printing

- Drug solution is jetted onto an edible substrate.
- Used for precise microdosing and oral thin films.
- High-resolution dosing for pediatric and geriatric use.

Binder Jet Printing

- Powdered drug and binder are layered and solidified.
- Used in the first FDA-approved 3D-printed pill.
- Suitable for high-dose, rapidly dissolving tablets.



ADVANTAGES OF 3D-PRINTED MEDICATIONS

Personalized Dosage: Customized dose tailored to patient's metabolism, genetics, or age.

Polypills (Multi-Drug): Combines multiple active ingredients with different release profiles.

Improved Compliance: More attractive, chewable, or easy-to-swallow formats increase adherence.

On-Demand Production: Medications can be printed at pharmacies, clinics, or remote locations.

Variable Release Profiles: Controlled or multi-phase release of drugs in a single pill.

Lower Waste: Produces only what's needed, reducing overproduction and inventory waste.

CHALLENGES TO OVERCOME

Regulatory Uncertainty: Limited regulatory frameworks for custom-made, on-demand medications.

Printer and Material Costs: Equipment and pharmaceutical-grade materials are expensive.

Stability and Shelf Life: Printed drugs may degrade faster without proper packaging/storage.

Quality Assurance (QA): Ensuring consistent dosing, purity, and strength is complex.

IP and Licensing Issues: Ownership of digital blueprints and formulations is still under debate.

REAL-WORLD EXAMPLES

Spritam (Levetiracetam) - Aprelia Pharmaceuticals

- First FDA-approved 3D-printed tablet for epilepsy.
- Uses ZipDose technology to make high-dose tablets that dissolve instantly.

FabRx (UK) - Printlets™

- Developed printable tablets with precise drug loads.
- Explored polypills for cardiovascular and HIV therapy.
- Has printed chewables for children with rare diseases.

Triastek (China) - Melt extrusion 3D tablets

- Focuses on complex release profiles for colon-targeted therapies.



Inhalable Vaccines & Biologics: Breathing In Your Dose A Needle-Free Future for Fighting TB, COVID-19 & Beyond Rishi Tadani (B.Pharm Final Year)

Why Do We Need Inhalable Vaccines?

Most respiratory diseases-like TB, COVID-19, or flu-enter through the nose or mouth. Traditional injected vaccines mainly generate immunity in the bloodstream, but not where these infections start. Inhalable vaccines are designed to target the lungs directly and activate a stronger immune response at the entry point of these diseases.

How Do They Work?	Flow of an Inhalable Vaccine	Benefits of Inhalable Vaccines	Challenges Still to Solve
- The vaccine is turned into a fine mist or dry powder (could be viral vectors, proteins, or mRNA). - You inhale the dose using a simple inhaler or nebulizer. - The vaccine reaches your lungs, where immune cells are ready to respond. - These cells get 'trained' to recognize and fight the real infection if it ever arrives	- Vaccine Formulation (powder/aerosol) - Inhalation via Device - Lung Deposition of Vaccine - Immune Activation - Protection from Disease & Transmission	- Needle-Free: No injections or pain - Faster Immunity: Targets respiratory entry points directly - Dose-Sparing: Smaller amounts may be just as effective - Better Storage: Some dry powders don't need cold-chain refrigeration - Easy to Administer: Ideal for mass campaigns, especially in resource-limited areas	- Ensuring vaccine particles reach the right part of the lungs - Developing affordable and easy-to-use inhaler devices - Stabilizing delicate biologics like mRNA in dry formulations - Meeting safety and regulatory standards

National Pharmaceutical Policy 2023: A Leap Towards Innovation-Driven Healthcare Yash Khursange (B.Pharm Final Year)

India's pharmaceutical industry, often dubbed the "Pharmacy of the World", is now undergoing a strategic transformation. The Draft National Pharmaceutical Policy (NPP) 2023, released by the Department of Pharmaceuticals, aims to reposition India as a global leader in innovation, quality, and equitable healthcare access, while reducing dependency on imports and preparing for future health challenges.

Why This Policy Matters

Despite its global reputation for affordable generics, India faces key hurdles:

- 70% dependence on imports for Active Pharmaceutical Ingredients (APIs) and Key Starting Materials.
- A limited presence in high-value biologics, mRNA, and advanced drug delivery systems.
- Fragmented regulatory systems and funding bottlenecks for innovation.

To address these, NPP 2023 aligns with Vision@2047 and seeks to drive a sustainable, inclusive, and innovation-led pharma ecosystem.

Key Focus Areas of the Policy

- | | |
|---|---|
| <ul style="list-style-type: none"> Research, Development & Innovation Affordable & Equitable Access Access to Funding and Investment Regulatory Harmonization | <ul style="list-style-type: none"> Skilled Workforce & Capacity Building Infrastructure & Logistics Strengthening Digital Transformation Sustainability and Green Pharma Strengthening Intellectual Property |
|---|---|

The Vision Ahead - "Empowering Health for All: Pioneering Excellence in Pharmaceuticals"

NPP 2023 is not just a document — it is a mission to create a resilient, innovative, and inclusive pharmaceutical future. By bridging affordability with high-end innovation, India is poised to lead in global health equity while ensuring better health outcomes for every citizen.



TECHNICAL ARTICLES

Unregulated Cosmetic IV Treatments: A Looming Cardiovascular Threat Utkarsh Mule & Avadhi Gumgaokar (B.Pharm Final Year)

INTRODUCTION:

The growing trend of injectable cosmetic agents—such as IV glutathione, high-dose Vitamin C, NAD⁺ infusions, and stem cell cocktails—poses a serious public health risk. Promoted as quick skin lightening, anti-aging, or detox solutions, these treatments are often administered without medical oversight, raising concerns about potentially life-threatening cardiovascular complications.

REGULATORY LANDSCAPE

India

- No CDSCO-approved IV formulations of glutathione or NAD⁺ for cosmetic use.
- Many wellness centers or salons offer unregulated treatments without prescription or medical supervision, with no system in place for adverse reaction reporting.

United States

- The FDA prohibits use of glutathione and NAD⁺ IV drips for anti-aging outside of regulated clinical trials.
- Compounded sterile products must follow USP<797> standards, and enforcement is active through warning letters and clinic shutdowns.

World Health Organization (WHO)

- Advocates strict adherence to safe injection protocols and warns against unregulated aesthetic medicine interventions.
- Emphasizes the high risk associated with non-evidence-based cosmetic IV therapies.

CONFIRMED INCIDENTS & HEALTH ALERTS

Shefali Jariwala (India, June 27, 2025)

- The 42-year-old actress suffered cardiac arrest after receiving anti-aging injections including glutathione and a Vitamin C IV on a fasting day. Police discovered medications and IV vials at her residence.
- Experts suggest that unsupervised high-dose infusions, electrolyte imbalances, and hypotension could have triggered fatal cardiovascular events, particularly in individuals with underlying vulnerabilities.

Philippines & Southeast Asia

- Reported deaths linked to unauthorized IV glutathione and stem cell cocktails have prompted the Philippine Senate to request formal probes. One case involved anaphylactic shock and fatal collapse during treatment.

United States

- Between 2020 and 2023, the FDA issued warnings to med-spas offering unauthorized NAD⁺ or whitening drips, citing unsanitary compounding practices and insufficient safety data.

Cardiovascular & Systemic Risks

- Hypotension, electrolyte disturbances, and arrhythmias can be triggered by rapid IV delivery, especially when combined with fasting or other medications.
- Allergic reactions, including anaphylaxis and Stevens-Johnson syndrome, are reported with high-dose or contaminated infusions. Absence of medical supervision increases the risk of air embolism, infections (e.g., HIV, hepatitis), and organ strain—particularly liver and kidney overload.

CONCLUSION

The enthusiasm for injecting cosmetic agents like glutathione and NAD⁺ drips, often at home or in non-medical settings, has outpaced the evidence supporting their use. Documented cases—including high-profile fatalities—highlight profound cardiovascular hazards and systemic risks. Without regulatory approval or medical oversight, these treatments are a public health concern—not beauty solutions.

TECHNICAL ARTICLES



Pharma Industry: Friend or Foe Vedant Yewale (B.Pharm Final Year)

The pharmaceutical industry is one of the most influential global sectors, with valuations rising rapidly. In 2024, it is valued at \$1,645.75 billion globally and \$63.36 billion in India, with projections to reach \$2,350.43 billion and \$174.31 billion respectively by 2034. Its scale and impact make it a cornerstone of healthcare and economies—but is it working for the people or for profit? The truth lies in its dual role as both savior and suspect.

PHARMA AS A FRIEND

- Unstoppable in Crisis: During COVID-19, while most sectors shut down, the pharmaceutical industry operated relentlessly to develop vaccines like Covaxin and Covishield, becoming a lifeline for humanity.
- Continuous Innovations: Breakthrough drugs and therapies have revolutionized the treatment of emerging diseases and enhanced healthcare standards for future generations.
- Disease Eradication: Illnesses such as smallpox and polio have been eradicated or nearly eliminated through pharmaceutical interventions, saving countless lives.
- Personalized Medicines: Genomic data now allows for tailored treatments, shifting from generic approaches to precision medicine.
- Economic & Health System Strengthening: By generating revenue, supporting infrastructure, and improving healthcare access, a strong pharmaceutical sector contributes to healthier populations and stronger economies.

While the benefits are immense, robust regulations are essential. Authorities must ensure ethical supply chains, transparent clinical trials, and stringent oversight to protect public health.

PHARMA AS A FOE

- Profit Over Life: Sky-high prices for life-saving drugs make them inaccessible to many, causing preventable deaths.
- Manipulation & Misinformation: Selective publication of research and sponsored studies can mislead the public and obscure the truth.
- Selective Prioritization: Companies often focus on profitable conditions like diabetes and hypertension while neglecting rare diseases.
- Generic Drug Suppression: Tactics to delay or block affordable generics keep drug costs high and options limited.
- Unethical Clinical Trials: Cases of rushed, unethical trials without proper consent undermine trust and endanger lives.
- Regulatory Corruption: Influence over regulatory bodies can lead to approval of unsafe drugs, eroding public confidence.
- Global Inequality in Access: Wealthier nations receive faster access to medicines, while poorer countries struggle to get even basic treatments.
- High Costs & Delayed Access: Expensive drugs and slow approval processes widen health inequities worldwide.

CONCLUSION

The pharmaceutical industry stands at a crossroads. Its life-saving innovations and economic contributions are undeniable, yet profit-driven motives, unethical practices, and unequal access tarnish its image. To transform it into a true friend of humanity, stronger regulations, transparency, and a patient-first approach are essential. Only then can the industry balance innovation with compassion, ensuring that its primary goal remains saving lives, not just earning profits.



TECHNICAL ARTICLES

What's In Your Medicine? A Vegetarian's Dilemma Gunjan Uke (B.Pharm Final Year)

Wait, are my capsules.... non-veg?

For many of us who follow vegetarian or vegan lifestyles - or observe dietary restrictions based on religion - the dietary restrictions based on religion - the idea that our medicines might be non-vegetarian can come as a shock. But yes, many drugs and supplements contain animal derived ingredients like gelatin, which makes this surprisingly complex issue.

What Makes Some Medicines Non - Vegetarian?

Here are few common non - veg components hidden in medical product:

- Gelatin: Often used in capsules
It is made from animal bones or skin. (commonly cows or pigs)
- Glycerin: Used in soft gels and syrups
It may be animal or plant based.
- Magnesium stearate and lactose: Used in fillers or lubricants
It comes from animal sources.
- Vaccines: Some vaccines are cultured using eggs or animal cells
(e.g. flu shots)



Even vitamins like Vitamin D3 may be derived from sheep's wool (lanolin) and Omega-3 from fish oil.

Are There Vegetarian or Vegan Alternatives?

Awareness leads to access to animal - free medications. Here's what to look for:

- Capsules labelled "HPMC" or "vegetarian cellulose" - these are plant -based.
- Vegan supplements - especially for Vitamin D, B12, and Omega-3 (from algae)
- Certified labels - some brands display vegan certifications on packaging.

What is HPMC?

- Hydroxy propyl Methyl cellulose is a versatile polymer.
- Oral Medications: It acts as an excipient and controlled-delivery component in oral medications.
- Controlled Release: HPMC is a key ingredient in hydrophilic matrix tablets for controlled drug release.
- Film-Forming: HPMC can form thin, translucent, and flexible films, useful in capsules, tablets, cosmetics, and personal care products.
- Binder: HPMC binds and holds particles together, adding strength and stability to final products.
- Gelation: HPMC forms a gel upon heating, with a gelation temperature typically between 75-90°C.

Health vs. Belief: What If There's No Alternative?

Most religions acknowledge that life saving medications exempt from dietary restrictions. If no vegetarian version exists, health comes first.

*"Innovation in science is not just about discovering new facts,
but about communicating them so clearly that they inspire
action and change."*

ACCOLADES/ACHIEVEMENTS



Ms. Tanisha Pal and Ms. Kanchan Fulewale (D. Pharm) were awarded Runner-up position in "Model making Competition" held on 6th Feb. 2025 during Avishkar-2025 organized by PJLCOP, Nagpur.

Mr. Snehal Shrivastav won Runner-up in Research Paper Presentation on "Unlocking The Anticancer Potential of Metal-Curcumin Complexes: Docking Insights With EGFR" In 'PhD Scholar Category' in 2 Days National Conference on "Natural to Synthetic: The Convergence of Traditional Medicine to Modern Medicine" Organized by K. C. Bajaj College of Pharmacy, Jaripatka, Nagpur on 10th And 11th March 2025.



Memorandum of Understanding (MoU) with Whitechasm

On 28th February 2025, Gurunanak College of Pharmacy, Nagpur, signed a Memorandum of Understanding (MoU) with Whitechasm Advisors, Pune, a reputed organization engaged in startup consultancy, innovation support, and entrepreneurial mentoring. The MoU aims to foster collaboration in the areas of entrepreneurship development, startup incubation, skill enhancement, and innovation-driven initiatives for students and faculty. Through this partnership, students will benefit from expert mentorship, idea validation, and exposure to real-world business development practices.

BATCH 2024-25

CONGRATULATIONS

FOR YOUR SELECTION IN M. TECH PROGRAM IN
BIOMEDICAL ENGINEERING, IIT BOMBAY

भारतीय प्रौद्योगिकी संस्थान मुंबई
Indian Institute of Technology Bombay

Ms. Pallavi Virulkar
BATCH 2024-25
B. PHARM

THE SIKH EDUCATION SOCIETY'S
GURUNANAK COLLEGE OF PHARMACY
KAMPTEE ROAD, NARI, NAGPUR (M.S.) INDIA - 440026
Established in 2004, Accredited by NAAC with grade 'B' (cycle II)
Approved by PCI, Affiliated to RTM Nagpur University, Nagpur, GTE and MSBTE
Included under 22B of UDC Act 1996; Ranked in NIRF

**HEARTIEST CONGRATULATIONS TO
GPAT - 2025 QUALIFIERS**

Student Name	Score	AIR
1. Madhumathi Manem	257	608
2. Soniya Bhojwani	244	912
3. Avadhi Gungaonkar	223	1507
4. Aryan Patel	221	1601
5. Lata Motwani	210	2027
6. Disha Nagpure	204	2302
7. Rohit Bonde	195	2739
8. Pallavi Virulkar	192	2939
9. Shreyas Madavi	188	3136
10. Yash Khursange	186	3234
11. Rahul Hurkat	182	3528
12. Utkarsh Mule	182	3530
13. Priyanshu Lade	179	3749
14. Diksha Devikar	177	3891
15. Aditya Bagde	162	5122
16. Pallavi Uikey	94	17983
17. Kashish Uikey	145	10327

From Management, Principal & Staff of GNCP
www.gncp.edu.in



ACCOLADES/ACHIEVEMENTS

RTMNU RESULTS

Class	Sem	% Result	Topper (% Score)
B. Pharm.	I	54.46%	Akshada A. Kumbhare (79.03%) Sineha Susheel Kumar Batra (76.41%) Fatema Ali Akbar Stovewala (76%)
B. Pharm.	III	66.94%	Kashish M. Mourya (77.33%) Himanshi Suresh Zade (76.66%) Karan Ganpat Parate (75.66%)
B. Pharm.	V	80%	Utkarsh R. Mule (76.46%) Rohit Ganesh Bhonde (75.53%) Priya Asto Mandal (75.23%)
B. Pharm.	VII	89.55%	M. Madhumathi M. S. Rao (79.5%) Sarpreet Kaur G. Singh Multani (79%) Lata Hero Motwani (78.66%)
M. Pharm (Pharmaceutics)	I	93.75%	Meenal H. Patel (76.92%) Shwetal Shivprakash Shahu (76.46%) Manya Rajiv Bhasin (76.30%)
M. Pharm (Pharmaceutics)	III	100%	Mayuri S. Bodhe (78.28%) Mitali S. Tembhurne (76.76%) Darshana K. Patale (74.85%)
M. Pharm (Q. Assurance)	I	85.71%	Neha S. Gupta (76.30%) Aayushi R. Deshmukh (74.61%) Siddhi M. Shrigiriwar (74.61%)
M. Pharm (Q. Assurance)	III	100%	Aakanksha V. Thakur (86.47%) Prathmesh P. Kamble (84.95%) Vaibhavi N. Lute (84.76%)
M. Pharm (Pharm. Chemistry)	I	91.66%	Rasika P. Mehakare (73.07%) Ruchi R. Manwatkar (70.30%) Apurva P. Fulzele (70.15%)
M. Pharm (Pharm. Chemistry)	III	100%	Shivshankar U. Jamkar (78.09%) Lokesh G. Makode (76.95%) Purvi D. Dhengle (75.23%)
M. Pharm (RA)	I	93.75%	Khushi Shashi Karemore (79.84%) Arti Arun Ingale (76.30%) Sanskriti Lalitrao Dhote (75.69%)

TRAINING & PLACEMENTS

PLACEMENTS 2025

Sr. No.	Name of the Candidate	Name of the Company/ Organization	Department
B.Pharm			
1	Ms. Renuka Haribhau Kale	Credence Global Solution, Pune	Executive - Accounts Receivable
2	Ms. Rajalakshmi Jaiswal	Advantmed, Ahmedabad	Medical Coding
M. Pharm			
3	Ms. Jasmin Marbal	Baroque Pharmaceuticals pvt Ltd, Vadodara	QA/QC
4	Mr. Chintan Rajurkar	Baroque Pharmaceuticals pvt Ltd, Vadodara	QA/QC
5	Ms. Akshata Junghare	Baroque Pharmaceuticals pvt Ltd, Vadodara	QA/QC
6	Ms. Rasika Mankar	Crystalvoxx Pvt. Ltd., Nagpur	QA/QC
7	Ms. Saloni Kamble	Oracity Lifesciences LLP, Nagpur	QA/QC
8	Mr. Prathmesh Kamble	Advantmed, Ahmedabad	Medical Coding
9	Ms. Tejaswini Gupta	Advantmed, Ahmedabad	Medical Coding
10	Mr. Lokesh Makode	Vishvesh Agromed Pvt. Ltd.	QA
11	Ms. Vaibhavi Lute	Glenmark, Sambhajinagar	Regulatory Affairs
12	Mr. Ritik Bobde (Jain)	Global Product Compliance, Nagpur	Regulatory Affairs
13	Mr. Ajay Kale	Sky Pharma Pvt Ltd. Sambhajinagar	QA
14	Ms. Pranjali Kapgate	S V Healthcare, Ahmedabad	Regulatory Affairs
15	Ms. Vishwalini Rangari	Tulsiramji Gaikwad-Patil College of Pharmacy, Nagpur	Lecturer
16	Ms. Purvi Dhengle	Senores Pharmaceuticals Pvt. Ltd., Ahmedabad	R&D

TRAINING & PLACEMENTS

TRAINING / INTERNSHIP DATA 2024-25

A total of 147 students Undergone Industrial Training

B.PHARM THIRD YEAR 2024-25

Organization	No. of beneficiaries
Aastha Critical Care & Multispeciality Hospital, Chandrapur,	1
Adroit Pharmaceuticals Pvt. Ltd. Nagpur 440008,	1
Ajanta Pharma Limited, Chhatrapati Sambhajanagar, 431105,	2
Claris Hospital, Chhindwara,	1
Haseeb Pharmaceuticals Pvt. Ltd, MIDC, Nagpur - 440016	1
Lupin Limited, Mihan, Nagpur, 441108,	1
Neo Life Drugs, Unit of Midas Multispeciality Hospital Pvt Ltd. Nagpur	4
Nicks Laboratories, Bhandara Road, Nagpur, 440008,	2
Nisha Herbals, Higna, Nagpur, 440016,	6
Nitika Pharmaceuticals Specialities Pvt. Ltd. Nagpur 440023	2
Pavan Nutra, Amroli-sayan road Villdelad, Gujrat - 394130	1
Pharmaregtech Pvt. Ltd, Butibori, Nagpur,	33
Seven Star Hospital, Nandanwan, Nagpur 440009,	3
Siddhayu Ayurvedic Research Foundation Pvt Ltd. Nagpur- 440024,	10
Snehal Pharma & Surgicals Pvt. Ltd. Butibori, Nagpur,	5
SOAR Life Sciences, Wadi Nagpur, 440023,	1
ZIM Laboratories Ltd. Nagpur- 441501	6
Total	80

B.PHARM FINAL YEAR 2024-25

Organization	No. of beneficiaries
Canvass Clincial Research Services Pvt. Ltd., Nagpur, 440012,	4
JAEE Medical Stores, Umred Road, Nagpur,	1
Mayons Pharmaceuticals Pvt. Ltd. Kalamna, Nagpur, 440026,	1
Nicks Laboratories, Bhandara Road, Nagpur, 440008,	5
Oniosome Healthcare Pvt. Ltd. Mohali, Punjab, 160055,	12
Pharmaregtech Pvt. Ltd, Butibori, Nagpur,	29
Qualichem Laboratories, Dharampeth, Nagpur- 440010,	2
Sanjay Bhole Memorial Orthopedic & Multispeciality Hospital, Nagpur,	2
Seven Star Hospital, Nandanwan, Nagpur 440009,	4
Velton Pharmaceuticals Pvt. Ltd., Nagpur 440002,	6
ZIM Laboratories Ltd. Nagpur- 441501	1
Ahuja Agency Bauch & Lomb India Pvt. Ltd. , Nagpur	1
Total	68

EVENTS ORGANIZED



WORLD MEDITATION DAY

Gururanak College of Pharmacy celebrated World Meditation Day on 21 December 2024 with Heartfulness Institute. The event was celebrated enthusiastically to promote mental well-being in daily life. Students actively participated in the session and experienced the calming effects of meditation. Faculty members ensured a peaceful environment and encouraged students to adopt meditation as a regular practice to enhance concentration, emotional stability, and overall mental health. The initiative was well-received and appreciated by both students and faculty, reflecting the institution's ongoing commitment to holistic education and wellness. All the registered participants received an online certificate from Heartfulness Institute.



HPV CANCER AWARENESS

On 17th January 2025, Guru Nanak College of Pharmacy, Nagpur, in collaboration with the Serum Institute of India, Pune, organized a seminar on Human Papillomavirus (HPV) vaccination to raise awareness about its role in preventing HPV-related diseases. Guest speakers Mr. Anil Dudeja and Mr. Rao from Serum Institute emphasized the significance of timely HPV vaccination for both males and females, reinforcing that "prevention is better than cure." The interactive session addressed students' queries, enhancing their understanding. To support learning, informative pamphlets were distributed, covering HPV facts, vaccine benefits, safety, and access.

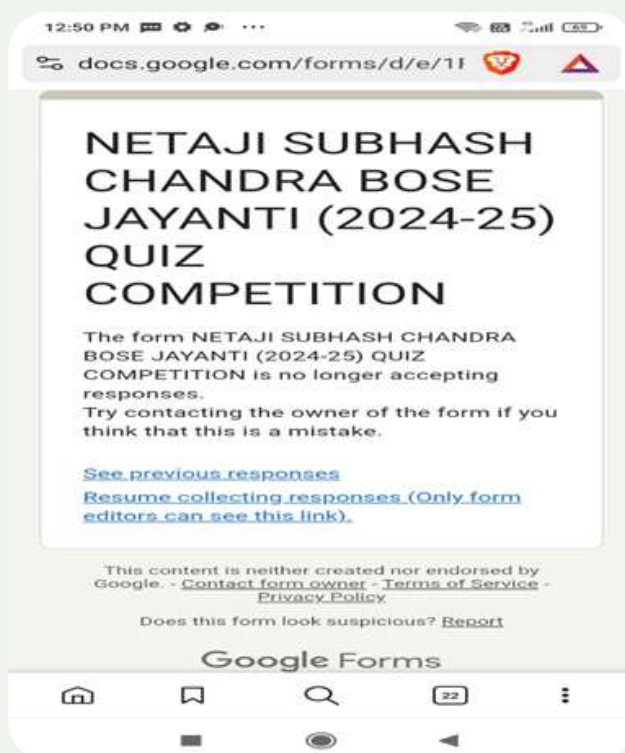
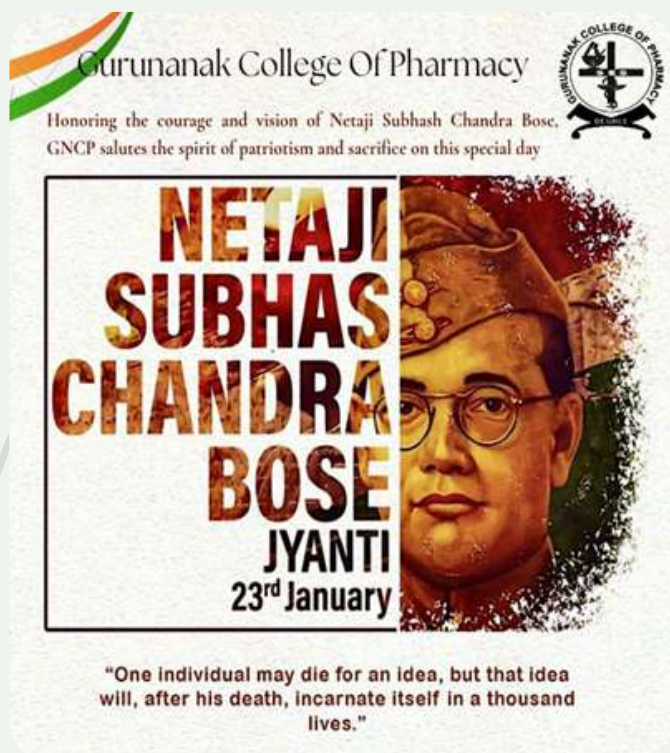




EVENTS ORGANIZED

SUBHASH CHANDRA BOSE JAYANTI CELEBRATION

On January 23, 2025, the NSS Unit of GNCP, Nagpur, organized a quiz competition to commemorate Subhash Chandra Bose Jayanti. The event aimed to honor the legacy of the great freedom fighter while spreading awareness about his contributions to India's independence. The quiz was conducted through Google Forms, with more than 50 students actively participating. The questions were carefully curated by NSS Incharge [Utsavi Vaghela], focusing on the life, struggles, and ideologies of Netaji Subhash Chandra Bose. The objective was to enhance students' knowledge about his role in the freedom movement and inspire them with his vision of patriotism and leadership. The enthusiastic participation of students reflected their keen interest in India's rich history and the values that Netaji stood for. The event concluded with appreciation for all participants, reinforcing the importance of remembering and learning from the sacrifices of national leaders. The quiz on Subhash Chandra Bose Jayanti was a meaningful initiative that successfully engaged students interactively and educationally, fostering a deeper understanding of India's independence struggle.



EVENTS ORGANIZED



ALUMNI REUNION 2025

Get together and Interaction of alumni with current budding pharmacists was organized as Alumni Reunion 2025 on dt.: 25/01/2025 at 10.30 a.m. in Sardarni Paramjeet Kaur Kalsi Auditorium. The objective behind this was to foster a strong connection between an educational institution and its former students, creating a platform for networking, reminiscing, and potentially contributing to the institution's development. Along with interaction and sharing their experiences with fellow students, alumni also enjoyed cultural programs by current students and various fun activities arranged. In the second part of this meeting of alumni association was held. In this all members expressed their views and discussed the future perspective plan for growth of college. In this, 44 alumni attended the meet and reminisced and cherished memories of college days. The program was coordinated by Dr. K. B. Bhelkar and with help of all working committee members and student volunteers made this a successful event





EVENTS ORGANIZED

ZEST 2025 (Annual Sports Event)

Gurunanak College of Pharmacy, Nagpur, successfully hosted the much-anticipated annual sports event, Zest, from 15th February to 18th February 2025. The event was marked by enthusiastic participation, excellent organization, and sportsmanship among all students and staff involved. Throughout the four days, a variety of sports competitions were conducted, including cricket, badminton, table tennis, futsal, esports, volleyball, throwball, tug of war, shot put, and athletics. Each match and event was played with great energy and positive spirit, fostering a sense of camaraderie and healthy competition among participants. The atmosphere at the event was vibrant and encouraging, with students cheering their teammates and demonstrating respect towards opponents. The spirit of fair play was upheld in every game, which greatly contributed to the overall success of Zest 2025. Dr. Vipin Pande Sport Incharge, Mr. Om Karnewar Student incharge and all members of the organizing committee deserves special appreciation for their meticulous planning and smooth execution of the event. Adequate facilities and medical support were provided, ensuring the safety and well-being of all players.



EVENTS ORGANIZED



Following students won prizes in the event ZEST 2025

Sport	Runners Up	Winners
Cricket (Girls)	M. Pharm	B. Pharm 4th Year
Cricket (Boys)	D. Pharm 2nd Year	B. Pharm 1st Year
Throwball	B. Pharm 4th Year	B. Pharm 2nd Year
Futsal	M. Pharm	B. Pharm 1st Year
Badminton Singles	Meenal	Somiya Khan
Badminton Doubles	Akshada & Niyat	Somiya Khan & Abha
Badminton Singles	Rohit Bhonde	Keshav M Agrawal
Badminton Doubles (Boys)	Priyanshu Lade & Sanket Parikh	Keshav M Agrawal & Om Karnewar
Badminton Mixed	Sanket Parikh, Abha	Keshav M Agrawal & Somiya
Tug Of War (Girls)	B. Pharm 3rd Year	B. Pharm 1st Year
Tug Of War (Boys)	B. Pharm 1st Year	B. Pharm 3rd Year
Table Tennis Singles	Nayan Ghodele	Somiya Khan
Table Tennis Doubles	Abha Ramteke & Soniya	Somiya Khan & Nayan
Table Tennis Singles	Priyanshu Lade	Sanket Parikh
Table Tennis Doubles	Priyanshu Lade & Faizan	Sakib Sheikh & Pranav
Chess (Girls)	Soniya Bhojwani	Rupal Ukey
Chess (Boys)	Atharva Kondhekar	Pratham Agrawal
Carrom (Boys)	Rupal Ukey	Neha Wagh
Carrom (Girls)	Aditya Bhandarkar	Faizan Sayyad
Atheletics (Girls)	Arti Dhurve	Afreen Ansari
Atheletics (Boys)	Ashutosh Jais	Swapnil Ade
Shortput (Girls)	Neha Ghotekar	Jasmine Kaur
Shortput (Boys)	Vedant Thubri	Harsh Puri
Esports	B. Pharm 4th Year	B. Pharm 3rd Year



EVENTS ORGANIZED

Zenith - Annual Social Gathering 2025

The much-awaited annual social gathering, "Zenith 2025", was celebrated from 20 February to 24 February 2025 with grandeur and exuberance at Guru Nanak College of Pharmacy, Nagpur. The event spanned over five days and provided a vibrant platform for students to showcase their talents, creativity, and team spirit. The celebration was inaugurated by Chief guest Hon'ble Pro-Vice Chancellor of RTMNU Dr. Rajendra Kakde, S. Gurbax Singhji Lamba, S. Amritpalsinghji Alag, President, The Sikh Education Society, S. Sarabjeetsinghji Kalsi, CEO & General secretary, The Sikh Education Society, Dr. A.M. Ittadwar, Principal. Dr. S.R. Manapure, Student Council In-charge, along with other dignitaries, with the traditional lighting of the lamp and an inaugural address that encouraged students to actively participate in co-curricular and cultural activities. Zenith featured a wide array of events including cultural performances such as group dances, solo singing, fashion shows, and drama. Students also participated enthusiastically in competitions like mehendi, rangoli, and debate. The talent and enthusiasm displayed were truly commendable. The event concluded with prize distribution, DJ and Lunch, allowing everyone to unwind and celebrate together. Zenith 2025 was a grand success and provided a platform for students to express themselves beyond the classroom, fostering camaraderie and college spirit.



EVENTS ORGANIZED



WORKSHOP ON SYSTEMATIC PATH TO CREATING SCIENCE & TECHNOLOGY BASED STRATUPS

A two-day Startup Workshop was successfully organized at Gurunanak College of Pharmacy in association with Incubein Foundation, Nagpur on 27th and 28th February 2025 to foster entrepreneurial thinking and innovation among students. The sessions were conducted by expert resource persons Mr. Ashutosh Prachand and Dr. Milind Chaudhari from Pune. They provided insightful guidance on startup ideation, business planning, funding opportunities, and entrepreneurial challenges. The sessions were interactive and engaging, encouraging students to think creatively and practically about real-world problems and solutions. On the next day, students enthusiastically participated in the "JIGNYASA Idea Pitching Competition", where they presented their innovative ideas before the panel and audience. The competition offered a platform for students to showcase their entrepreneurial potential and receive valuable feedback from the experts. The workshop proved to be highly beneficial, inspiring students to explore entrepreneurship as a viable career path. Around 60 students participated in the workshop and contributed to the overall success of the event. The event was proudly sponsored by Chidambar Tours and Travels Pvt. Ltd, Nagpur; Utopian Drinks; Suresh Medicals, Nagpur





EVENTS ORGANIZED

EDUCATIONAL VISITS

82 students of D. Pharm. 1st and D. Pharm. 2nd Year visited at Dr. Babasaheb Ambedkar Hospital and Research Centre, Nagpur on 4th Feb. 2025 for getting an information regarding actual work.

40 students of D. Pharm. 2nd year visited at Sobti Brothers, Nagpur, Nagpur on 28th Feb. 2025 to gain the knowledge about community pharmacy and its various prospects.



BLOOD SUGAR DETECTION CAMP

Blood Sugar Detection Camp was organized by the students of Gurunanak College of Pharmacy at Kapilvastu Buddha Vihar, Nagpur on 25th March 2025.



EVENTS ORGANIZED



SEMINAR ON

"BREAKING BARRIERS: WOMEN'S IN SPORTS"

On the occasion of International Women's Day, a seminar titled "Breaking Barriers: Women in Sports" was conducted on 8th March 2025, featuring Ms. Prachi Prakhi as the keynote speaker. The event aimed to highlight the challenges and achievements of women in sports while emphasizing their growing influence and empowerment across various fields. Ms. Prachi Prakhi delivered an insightful and inspiring session, addressing the barriers women have historically faced in sports, such as societal stereotypes, unequal opportunities, and representation issues. She also expanded the discussion to women's empowerment in politics, education, and other professional fields, highlighting that women are already empowered and excelling in all areas. She encouraged the audience to recognize and celebrate these achievements while continuing to support gender equality. The session was highly interactive, featuring an engaging Q&A segment where participants shared their perspectives and sought guidance from the speaker. Audience feedback indicated that the seminar was both informative and uplifting, leaving attendees with a strong sense of motivation and confidence in the progress of women in society. The event concluded with a positive message from Ms. Prachi Prakhi, reinforcing that women are already empowered and breaking barriers in every domain. A vote of thanks was extended to the speaker and attendees for their enthusiastic participation. The seminar successfully celebrated the achievements of women and encouraged continued progress in all fields.





EVENTS ORGANIZED

WORKSHOP ON

"STATISTICAL ANALYSIS USING MINITAB: A HANDS-ON APPROACH"

A workshop titled "Statistical Analysis using Minitab: A Hands-on Approach" was successfully conducted on 28th March 2025 for the final year B. Pharm and M. Pharm (Pharmaceutics) students of Gurunanak College of Pharmacy, Nagpur. Mr. Shubham Gupta, Assistant Professor, GNCP, led the session. The objective of the workshop was to introduce students to applied statistics and equip them with practical skills in using Minitab software for data analysis, a vital component in research and pharmaceutical formulation development. The session covered various statistical tools including descriptive statistics, ANOVA, regression analysis, and design of experiments (DoE). Students actively participated in the workshop, with many bringing their laptops to engage in real-time data analysis exercises. The session was designed to be interactive, with step-by-step demonstrations that allowed students to apply theoretical concepts to practical scenarios. The hands-on nature of the workshop enabled students to enhance their analytical capabilities and understand the application of statistical tools in pharmaceutical research, regulatory submissions, and quality control.



EVENTS ORGANIZED



COLLEGE SOCIAL RESPONSIBILITY (CSR) PROGRAM: VISIT TO ORPHANAGE

On 25th April 2025, faculty members of Guru Nanak College of Pharmacy, Nagpur visited the Shashakiya Mulinche Vastigruha (Government Girls' Shelter Home) in Sadar, Nagpur, as a part of social outreach initiative. The activity was organized in collaboration with the Bharatiya Stree Shakti Foundation, Nagpur Branch; an organization dedicated to the welfare and empowerment of women and girls. During the visit, faculty members interacted warmly with the residents, shared encouraging words, and fostered a supportive environment. A special session was conducted where faculty members provided career guidance and highlighted opportunities available to girls in diverse fields such as healthcare, education, entrepreneurship, and skill development. The objective of the session was to inspire and empower the young residents to pursue their dreams and strive for a strong, independent future. Additionally, essential items were donated, and the visit concluded with heartfelt interactions, motivation, and emotional bonding. The event reflected the institution's deep commitment to social responsibility and the empowerment of underprivileged sections of society.





EVENTS ORGANIZED

INDUSTRIAL VISIT TO SADATAN AYURVEDA PVT. LTD.

The M. Pharm students of Gurunanak College of Pharmacy, Nagpur, recently visited Sadatan Ayurveda Pvt. Ltd., on 6th June 2025 a reputed manufacturer of Ayurvedic and cosmetic formulations, as part of their industrial exposure program. The visit aimed to provide students with practical insights into the manufacturing and quality control processes involved in the production of Ayurvedic and cosmetic products. During the visit, students were given a detailed tour of the Quality Assurance (QA), Quality Control (QC), Research & Development (R&D), and Production departments. They observed various stages of product development, including raw material inspection, in-process quality checks, packaging, and documentation protocols. Special emphasis was laid on Good Manufacturing Practices (GMP), regulatory compliance, and standard operating procedures (SOPs) followed within the facility. The visit offered students a valuable understanding of the integration of traditional Ayurvedic principles with modern pharmaceutical manufacturing techniques. Ms. Pranali Band, member of the Training and Placement Cell, Ms. Prachi Rode & Mr. Shubham Gupta, Assistant professor, accompanied the students and facilitated the interaction between the students and industry professionals.



*"All the breaks you need in life wait within your imagination,
Imagination is the workshop of your mind, capable of
turning mind energy into accomplishment and wealth."*

~ Napoleon Hill

EVENTS ORGANIZED



COMPLETION OF "HELM MODULE"

Final year B. Pharm students (Batch 2024-25) of Guru Nanak College of Pharmacy, Nagpur, completed the HELM (Heartfulness Enabled Leadership Module), a 1-credit course recommended by AICTE. The module aimed to enhance holistic health, emotional intelligence, stress management, and overall well-being among students. It covered key life skills including mindfulness, time management, emotional balance, and interpersonal communication through interactive lectures, self-assessments, and reflective practices. The sessions were conducted and coordinated by Dr. Shrikant Annavarpu, District Coordinator, Heartfulness Institute Nagpur, and Mrs. Sudha Peri, who guided students with practical and engaging approaches. All enrolled students successfully completed the course and were awarded certificates of completion for their active participation.





EVENTS ORGANIZED

SPORTS, CULTURAL EVENTS, COMPETITION PARTICIPATION BY STUDENTS

- Two final-year B. Pharm students of Gurunanak College of Pharmacy, Nagpur, Ms. Pallavi Virulkar and Ms. Madhumati Manem, participated in an Intercollegiate Quiz Competition held at Institute of Pharmaceutical Education and Research (IPER), Wardha, on 23rd December 2024.
- 28 students of Diploma in Pharmacy participated in cricket, football and carrom organized by Suryodaya College of Engineering, Kamptee Polytechnic and Tulsiram Gaikwad College of Engineering, Nagpur in association with IEDSSA, Nagpur on behalf of MSBTE.
- Students participated in RTMNU Sport Tournaments

Date of event	Name of the event	Name of the student participated
15-10-2024	Chess	Pratham Agrawal, Atharva Kondhekar, Giriraj Lohiya, Isha Sheikh, Soniya Bhojwani, Rupal Ukey, Kashish Jagwani
24-09-2024	Table Tennis (Boys)	Sanket Parikh, Priyanshu Lade, Sakib Sheikh, Om Karnewar, Ketan Daswani
01-10-2024.	Football (Boys)	Sameer Ansari, Vedant Yewale, Pratham Gour, Prathamesh Kanugo, Ketan Daswani, Farhan Ibrani, Sarang Rahangdale, Daksh Tulswani, Aditya Bhandarkar, Abuzar Sheikh, Tosique Sheikh, Rishi Thadani, Aryan Tirpude, Sumeet harode, Tanmay Anturkar
14-02-2025	Cricket (Boys)	Aditya Soni, Anurag Wath, Sanket Padole, Ketan Daswani, Ketan Fulwani, Neeraj Adwani, Prathamesh Kanugo, Sakib Sheikh, Pratham Agrawal, Aryan Tirpude, Pratham Gour, Yash Bhat, Shashank Satyam
25-09-2024	Badminton (Boys)	Nilesh Batra, Harsh Gupta, Keshav Agrawal, Om Karnewar, Farhan Ibrani, Ketan Daswani, Rohit
19-09-2024	Badminton (Girls)	Somiya Khan, Manasi Panchbhai, Abha Ramteke, Surbhi Mahalle

GUEST LECTURES ORGANIZED



A guest lecture was arranged on the topic **"Importance of Ayurveda for healthy Life"** for Diploma in Pharmacy students by Dr. Rupali Bhanare, Asst. Prof., Bhausaheb Mulak College of Ayurveda on 19th Dec. 2024.

CAREER COUNSELLING AND GPAT EXAM GUIDANCE

Dr. Maimuna Bombaywala, a renowned educator and mentor, conducted an insightful session on Career Counselling and GPAT Exam Guidance for final-year B. Pharm students on 12th December 2024. During the session, she provided an overview of various career opportunities in the pharmaceutical industry, including higher education, research, regulatory affairs, marketing, and entrepreneurship. Dr. Bombaywala emphasized the importance of aligning personal interests with career goals and motivated students with real-life examples and success stories of her previous students. Her interdisciplinary teaching style made the session engaging and easy to understand. As part of the session, Dr. Bombaywala also shared valuable tips and strategies for excelling in the GPAT exam, including her famous "GPAT Jugaad" techniques for simplifying complex topics. Additionally, she offered students 1-month access to a daily test series to support their preparation. The session concluded with an interactive Q&A session. The students expressed gratitude for the practical advice and motivation, finding the session highly beneficial for their academic and career planning. Dr. Sumit Arora, Assistant Professor, Gurunanak College of Pharmacy, Nagpur, coordinated the activity.





GUEST LECTURES ORGANIZED

CAREER COUNSELLING

An engaging and insightful career counselling session was conducted by Ms. Saba Qureshi, Formulation Scientist at Dr. Reddy's Laboratories, Hyderabad, on 26th December 2024 at 12:30 PM. This session was organized under the Training and Placement Cell of Gurunanak College of Pharmacy (GNCP) in collaboration with the Guidance and Counselling Cell for Higher Education. Ms. Qureshi guided students on shaping their professional journey with a special focus on preparation strategies for the Graduate Pharmacy Aptitude Test (GPAT) and options for higher education. She shared practical tips on effective time management, recommended study resources, and emphasized selecting postgraduate programs based on individual interests and long-term career goals. Her interactive and motivating approach was highly appreciated by all participants and served as a strong source of inspiration for students to pursue their academic and career aspirations with confidence. Another important part of the session was her demonstration on how to present oneself in interviews. Ms. Qureshi explained the importance of a well-structured resume, professional dressing, confident body language, and clear communication. She shared strategies to answer interview questions effectively and showcase skills authentically. The session was highly engaging, and Ms. Qureshi's ability to connect with students made it both informative and inspiring. Her guidance will surely help students in preparing for their future careers with confidence and clarity.



"Every Work has got to pass through hundreds of difficulties before succeeding, those that persevere will see the light sooner or later."

- Swami Vivekananda

GUEST LECTURES ORGANIZED



Regulatory Affairs: Skill sets requirements & Carrier opportunities

Regulatory Affairs: Skill sets requirements & Carrier opportunities: In series of 'An interaction with alumni' program guest lecture of Mr. Vishal Dharmari, Regulatory Affairs specialist, MTOPRA Aspire Pharmaceuticals Ltd., (Morningside Healthcare Ltd.), Leicester, England, UK. was organized on 18 Jan, 2025 at Gurunanak college of pharmacy, for M. Pharm and B. Pharm students. He delivered a talk on the topic "Regulatory Affairs: Skill sets requirements & Carrier opportunities". A total 119 students attended the lecture. The program was coordinated by Dr. K. B. Bhelkar.



GPAT & NIPER Roadmap:

Career Opportunities, upgradation and beyond

In series of 'An interaction with alumni' program guest lecture of Mr. Hemant Dongre, Primary Intelligence Analyst, IQUIA was organized on 21 Jan, 2025 at Sardarni Paramjeet Kaur Kalsi Auditorium, for B. Pharm III and B. Pharm IV-year students. He delivered a talk on topic 'GPAT & NIPER Roadmap: Career Opportunities, upgradation and beyond'. GPAT and NIPER aspirant 115 Students attended the lecture. The program was co-ordinated by Dr. K. B. Bhelkar.





GUEST LECTURES ORGANIZED

IT HEALTHCARE JOBS FOR PHARMA GRADUATES IN PV, CDM, MEDICAL CODING/ SCRIBE & CLINICAL RESEARCH

A career counselling session was conducted on 6th February 2025 by Mr. Meher Tundulwar for pharma graduates, focusing on booming IT healthcare fields like Pharmacovigilance, Clinical Data Management, Medical Coding/Scribing, Summarisation, and Clinical Research. He highlighted how digital transformation and technological advancements are driving demand for skilled professionals. The session stressed the value of certifications, internships, networking, and continuous learning to enhance employability. Students were advised to stay updated with industry trends and develop practical skills. An interactive Q&A addressed individual queries, making the session insightful and informative, while providing clear guidance on diverse career paths in the healthcare IT sector.



eCTD SUBMISSIONS AND WORKING WITH eCTD

A session on "Preparation for eCTD Submissions and Working with eCTD Submission Software" was successfully conducted at Gurunanak College of Pharmacy, Nagpur, on 12th April 2025 for the students of M. Pharm (Regulatory Affairs). Mr. Himanshu Purohit, Regulatory Specialist at Freyr Solutions and alumni, shared in-depth knowledge on the structure, components, and preparation process of eCTD (electronic Common Technical Document). He also provided valuable demonstrations and practical insights into using eCTD submission software, guiding students through the step-by-step procedure involved in regulatory document submissions.



RESEARCH & DEVELOPMENT ACTIVITIES

RESEARCH/ CONSULTANCY GRANTS

- **Dr. Subhash R. Yende** received grant of Rs. 3,00,000/- for the research project entitled "Herbal formulation for Rheumatoid Arthritis: Exploring Multi-phytoconstituents approaches to disease management". The Research Project was approved and sanctioned by Rashtrasant Tukadoji Maharaj Nagpur University, under University Research Project Scheme on 15/01/2025 for the period of two year (2025-2027).
- **Dr. Sheelpriya R. Walde** received a grant of Rs. 3,00,000/- for the research project entitled "To develop and evaluate a stable topical solution of minoxidil and cetirizine for Alopecia". The Research Project was approved and sanctioned by Rashtrasant Tukadoji Maharaj Nagpur University, under University Research Project Scheme, on 15/01/2025 for the period of two year (2025-2027).
- **Dr. Govind Lohiya** received a consultancy grant of ₹ 51000/- (for period of Jan 2025 to June 2025) from MYDL Innovations, Akola, to support a strategic research initiative focused on the development of an advanced multicomponent film formulation. This collaboration underscores the growing industry-academia synergy under the functional MoU with industry.

PATENTS GRANTED/ FILED

- **Dr. Shobha Ubgade** and **Dr. Vaishali Kilor** have been recently granted an Indian Patent for an invention entitled "A process of preparing Nanosuspension for enhanced solubility and bioavailability of drug molecules" on June 2025 vide patent no- 567296.
- **Dr. Govind Lohiya** granted design patent for "Automated Evaporator for Nanoparticles Synthesis" with design no. 440787-001 on 13th Feb 2025.
- **Dr. Archana Mungle** granted design patent for "Eucalyptus oil Based Nebulizer" no. 448269-001, dated 20/02/2025
- **Dr. Sharad R. Manapure** awarded a patent for "An Improved Method of Production of Microcrystalline Cellulose" Patent number: 564922, in Jan 2025.
- **Dr. Vipinchandra B. Pande** awarded a patent for "Two-stage Morris maze apparatus for spatial memory detection" Patent no: 456968-001 dated: 28/04/2025

RESEARCH & DEVELOPMENT ACTIVITIES

RESEARCH PUBLICATIONS

01. **Vaishali Kilor, Nidhi Sapkal**, Sana Shaikh. Review of clinical studies of herbal products as a treatment option in recurrent Aphthous stomatitis. *Research Journal of Pharmacy and Technology*. 18(3), 2025, 1456. doi: 10.52711/0974-360X.2025.00209
02. Shubham Kamble and **Govind Lohiya**. Investigating the Anti-Cancer Properties of a Newly Synthesized Metal-Quercetin Nanocomplex in the Context of Cervical Cancer. *Asian Journal of Pharmaceutical and Clinical Research*, 18 (4), 2025. (Q2, Scopus-listed journal)
03. Achal Choudhary, **Gulshan Gurunani** and **Sheelpriya Walde**. Developing and accessing Herbal oral dosage form for the treatment of obesity and diabetes mellitus: A review. *International Journal of all Research Education and Scientific Methods (IJARESEM)*, 13, 2025, 1163-1167.
04. Bhagyashree Idpate, **Gulshan Gurunani** and **Sheelpriya Walde**. Nutraceutical Gummies: A functional approach to lifestyle disorder. *International Journal of all Research Education and Scientific Methods (IJARESEM)*, 13, 2025, 169-172.
05. Tanaya R. Gadge, **Pranali S. Band**, **Shubham S. Gupta**, **Gulshan A. Gurunani**, **Sheelpriya R. Walde**. Formulation and Evaluation of Polyherbal Dark Compound containing Ashwagandha, Lodhra, Shatavari, Amla Extract for the Management of Dysmenorrhea. *International Journal of Innovative Research in Technology*, 11 (12), 2025, 217-223.
06. Shruti Jaisingpure, **Gulshan Gurunani** and **Sheelpriya Walde**. Nutraceutical Gummies: A Review on Trigeminal Neuralgia (TN). *International Journal of all Research Education and Scientific Methods (IJARESEM)*, 13, 2025, 157-165.
07. **Snehal Shrivastav**, Rasika Rangari, Tushar Akhare, Yogita Charde, **Govind Lohiya**. Current Trends in Modification of Curcumin Derivatives to Improve Drug Delivery. *Asian Journal of Research in Pharmaceutical Sciences*. 15 (2), 2025, 179-184. DOI: <https://doi.org/10.52711/2231-5659.2025.00028>
08. N. K. Gupta, H. Bankar, Y. Charde, R. Rangari, **S. Shrivastav**. Lumpy Skin Disease: A Critical Review of Epidemiology, Pathophysiology, And Management Approaches. *International Journal of Pharmaceutical Sciences*. 3(1), 2025, 1585-1599. DOI: <https://doi.org/10.5281/zenodo.14690391>

RESEARCH & DEVELOPMENT ACTIVITIES

RESEARCH PUBLICATIONS

09. H. A. Bankar, N. Gupta, Y. Charde, R. Rangari, **S. Shrivastav**. Exploring the Bioactive Compounds & Potential Health Benefits of *Clitoria ternatea* Linn. in the Treatment of OCD: A Systematic Review. International Journal of Pharmaceutical Sciences, 3(1), 2025, 1232-1249. Doi: <https://doi.org/10.5281/zenodo.14667924>
10. **Pranali S. Band**, Apali A. Jain, Riya Warshe, Nikita N. Musale, Tejaswini S. Patle, Aditya Pise, Sejal K. Agrawal, Pratik D. Dhokne, Innovative Drug Targets and Treatments For Types of Hyperlipidemia- A Review, International Journal of Innovative Research in Technology, 11 (10), 2025, 1110-1120.
11. Akash S. Kapse, **Archana N. Mungle**, Abhijit N. Daf, Ravina R. Pund, Shweta k. Chaubey, Poonam P., Chaurpagar, Divya S. Motghare, & Vaibhavi R. Ghavghave. Survey Report on Knowledge and Awareness of Patients about Post Menopause and Its Complications. Journal of Population Therapeutics and Clinical Pharmacology, 32(6), 2025), 780-794.
12. Abhijit N. Daf, **Dr. Archana N. Mungle**, Mr. Anup P. Bannagare, Mr. Akash R. Bhoyar, Akash S. Kapse, & Ms. Shweta G. Gawande. Formulation And Evaluation of Mouth Dissolving Film of Naproxen Sodium for The Management of Migrain. Educational Administration: Theory and Practice, 30(1), 2024, 6887-6894.

RESEARCH PRESENTATIONS

- **Mr. Pravin Admane** presented a poster on the topic "Screening of polymers for development of Modified release drug printed films" on 5th Jan. 2025 at SAC-ACCP conference held at Goa.
- **Mr. Alok Ubgade** presented a poster on the topic "Development of animal model for the evaluation of oral mucositis formulation" on 4th Jan. 2025 at SAC-ACCP conference held at Goa.
- **Mrs. Pournima Shrikhande** presented a poster on the topic "Advancing healthcare through collaboration and innovation" on 22nd Feb. 2025 at Pharma Summit 2025 at NCP, Nagpur.

RESEARCH & DEVELOPMENT ACTIVITIES

RESEARCH PRESENTATIONS

- Paper presented by students:

Name of student	Title of paper	Conference details	Date
Lokesh G Makode	Standardization of Aerial parts of Sida Acuta and Comparative Evaluation of Its Anthelmintic Activity	South Asian Perspective: Clinical Pharmacology New Horizons in Patient-Centric Drug Development and Use, Goa	3rd to 5th January 2025
Mahesh Pekamwar	Evaluation Of Anthelmintic Activity Of Aerial Part Of Pergularia Daemia		
Priyanshi R Sahu	To Evaluate the Anxiolytic and Antidepressant Effects of Vanillic Acid (VA) and Sisamol, Individually and In Combination, And to Determine Optimal Dosing Regimens		
Pranjali P Kapgate	Anti-Arthritic Potential of Vitis Vinifera Extract in Complete Freund's Adjuvant Induced Arthritis in Rats		
Purvi D Dhengle	To Formulate and Evaluate Bacopa Monnieri Pellets Using the Extrusion Spheronization Technique to Enhance Cognitive Function, Focusing on Memory and Learning		
Shivshankar jamkar	Anti-diabetic Efficacy of Dolichandrone Falcata Leaves Against Alloxan Induced Diabetes in Rats		
Saloni Kamble	Evaluation of Anthelmintic Activity of the Flavanoid Rich Fraction of The Aerial Parts of Trichodesma Indicum		
Kishor Khandait	Molecular docking studies of Teucrin & derivatives against Rabies Virus		
Tushar Moon	Optimization of Extraction for Lepidium Sativum		
Yogita Dakhole	Topical treatment for Athlete's Foot		

RESEARCH & DEVELOPMENT ACTIVITIES

RESEARCH PRESENTATIONS

- Paper presented by students:

Mitali Tembhurne	In-vivo Screening of Licorice for Oral Mucositis	South Asian Perspective: Clinical Pharmacology New Horizons in Patient-Centric Drug Development and Use, Goa	3rd to 5th January 2025
Sakshi Deulkar	Formulation of Flavonoid-Rich Oral Dosage Form		
Mayuri Bodhe	Quercetin Gel for Aphthous Stomatitis		
Achal Choudhary, Gulshan Gurunani and A M Ittadwar	Evaluation of Usnea Florida's Antibacterial Properties	National conference at Anurag college of Pharmacy, Warthi, Dist. Bhandara. (MS)	3rd to 5th January 2025
Bhagyashree Idpate, Gulshan Gurunani and A M Ittadwar	Formulation and Evaluation of Tulsi enriched Gummies: A Novel Nutraceutical Approach		
Saloni Kamble	Breakthrough and Advancement in Drug Delivery System		
Aishwarya U Mohnani	Investigation of anti-arthritis potential of Berberine and its nanoparticle	Two Days National Conference on Traditional Medicine to Modern Medicine at Nagpur	10 and 11 March 2025
Avanti K Girdekar	Microbial Alchemy: Fermented Cosmetics and Metabolites of Skin Microbiota	National conference on "Role of Interdisciplinary Research Towards the New Developments in Pharmaceutical Sciences" at Amravati	27th March 2025

RESEARCH & DEVELOPMENT ACTIVITIES

CONFERENCE/WORKSHOP/SDP/QIP/SHORT-TERM TRAINING ATTENDED BY FACULTIES

- **Mr. Pravin Admane** attended five days National Level online Faculty Development Program (e-FDP) on "Optimising Pharmaceutical Innovation: Ethical issues of AI for Research writing, publications and Patents" from 2nd to 6th Dec. 2024, organized by School of Pharmacy, P P Savani University, Surat, Gujarat.
- **Dr Gulshan Gurunani** has attended a two-month online training program organized by NITTT Bhopal from 1st January 2025 to 28 February 2025.
- **Dr. V. A. Kilor, Dr. M. K. Bhurchandi, Mr. Pravin Admane, and Mr. Alok Ubgade** attended the International Annual Conference on "South Asian Perspective: Clinical Pharmacology New Horizons in Patient-Centric Drug Development and Use" organized by SAC-American College of Clinical Pharmacology from 3rd-5th Jan. 2025 at Goa.
- **Mrs. Pournima Shrikhande** attended one day National Conference on "Advancing Healthcare through collaboration and innovation" on 22nd Feb. 2025 at Pharma Summit 2025, organized by NCP, Nagpur.
- **Mr. Shubham Gupta, Ms. Pranali Band and Ms. Prachi Rode** attended National Conference—Natural to Synthetic: The Convergence of Traditional Medicine to Modern Medicine, organized by K. C. Bajaj College of Pharmacy, Nagpur on 10th & 11th March 2025.
- **Dr. Shobha Ubgade and Dr. Govind Lohiya** attended Faculty Development Program on Innovation and Entrepreneurship organized by InFED (IIM, Nagpur) and sponsored by AICTE & MoE's Innovation Cell from 17 to 21 March 2025.
- **Ms. Pranali Band, Ms. Prachi Rode, Mr. Shubham Gupta, and Mr. Snehal Shrivastav** attended a one-week Faculty Development Program on "Integration of Sustainable Practices in Pharmaceuticals: Academia, Industry, Research, and Public Health" organised by School of Pharmaceutical Sciences, Vels Institute of Science Technology, and Advanced Studies (VISTAS), Pallavaram, Chennai, 24 - 28th March 2025.
- **Dr. Shobha Ubgade** participated in 6-days national-level online FDP on " Smart Research for the Digital Age: Mastering Grant Proposals, High Impact Scopus Publishing, patents and AI-Driven Excellence" from 7 to 12 April 2025, organized by Sardar Patel College of Pharmacy, Anand, Gujarat.

RESEARCH & DEVELOPMENT ACTIVITIES

GUEST LECTURE DELIVERED/ RESOURCE PERSON

- **Dr. Subhash R. Yende** conducted a session in Pharmacy Management Course organized by Maharashtra State Pharmacy Council and Nagpur District Chemists and Druggists Association on 19/01/2025 at Mouda College of Pharmacy, Mouda, Dist. Nagpur.
- **Dr. Sumit Arora** delivered a guest lecture on 'Insights for Effective GPAT Preparation' on 22nd January 2025 at SNJB's Shriman Sureshdada Jain College of Pharmacy, Chandwad, via Google Meet.
- **Dr. Sumit Arora** received the Certificate of Appreciation from Shri Sachchidanand Shikshan Sanstha's Taywade College of Pharmacy, Koradi, Nagpur, for conducting the certificate course on "Molecular Docking and ADMET Analysis" on January 23, 2025.
- **Dr. Subhash R. Yende** conducted a session on "In-silico ADMET study" in a certificate course on molecular docking and ADMET analysis, organised at Taywade College of Pharmacy, Koradi, Nagpur on 24/01/2025.
- **Dr. Sumit Arora** was invited as chief guest, poster evaluator, and speaker to deliver a session on 'Insights for GPAT Preparation' to inspire future pharmacy professionals. at the State Level Poster Competition organised by Chhatrapati Shivaji College of Pharmacy, Deori, on January 24, 2025.
- **Dr. Gulshan Gurunani** invited as Chief Guest and Poster Evaluator at the State Level Poster Competition organized by Chhatrapati Shivaji College of Pharmacy, Deori, on January 24, 2025.
- **Dr. Govind Lohiya** worked as Poster evaluator in National Conference on 'Breakthroughs and Advancements in Drug Delivery Systems' organised by Anurag College of Pharmacy, Bhandara, on 1st Feb 2025.
- **Dr. Sumit Arora** was invited as a Resource Person for "Application of Drug Design in Computational Techniques," featuring hands-on training with Chimaera and AutoDock Vina on the one-week workshop at the School of Pharmacy, SRTM University, Nanded, on February 6, 2025
- **Dr. Govind Lohiya** was called as an evaluator in "EduFest 2025," organized by St. Joseph School, Godhani, on the occasion of National Science Day on 8th Feb 2025.
- **Dr. Subhash R. Yende** worked as an evaluator for the Innovation and Research Contest (SKB-SCINOVATE), held on the occasion of National Science Day 2025 on 18/02/2025 at SKB College of Pharmacy, Kamptee, Nagpur.
- **Dr. Sumit Arora** conducted a workshop on "GPAT Insights: Strategies for Smart Preparation" at Pravara Rural College of Pharmacy, Loni, on February 21, 2025
- **Dr. Sumit Arora** was invited as a Resource Person at the One-Day National Conference on "Artificial Intelligence in Pharmaceuticals: Exploring New Ways for Research and Development," organised by Amrutvahini College of Pharmacy, Sangamner, in association with APTI on February 22, 2025.

RESEARCH & DEVELOPMENT ACTIVITIES

- **Dr. Sumit Arora** delivered a Power Talk on "AI-Driven Literature Review and Research Assistance: Empowering Academic Excellence" at Agnihotri College of Pharmacy & Agnihotri Institute of Pharmacy, Wardha, on February 28, 2025.
- **Dr. Sumit Arora** worked as a scientific poster evaluator at the one-day National Conference on "Innovation in Pharmaceutical Sciences: Research Reality and Challenges" organized by KDK College of Pharmacy & Research Institute, Nagpur, and Bhausahab Mulak College of Pharmacy, Umred, in association with the Association of Pharmaceutical Teachers of India (APTI) on March 8, 2025.
- **Dr. Sumit Arora** worked as an evaluator for oral presentations at the 2-day National Conference on "Natural to Synthetic: The Convergence of Traditional Medicine to Modern Medicine," organized by K.C. Bajaj College of Pharmacy & Research, Nagpur, under Sindhu Education Society on March 10-11, 2025.
- **Dr. Govind Lohiya** worked as an evaluator in the Best Research Project (BRP) scheme, an initiative by Dadasaheb Balpande College of Pharmacy, Nagpur on 10th March 2025.
- **Mr. Alok Ubgade** delivered a session as a speaker in the Faculty Development Programme on "Documentation of Academic Monitoring of Diploma in Pharmacy" held at Shri Sainath College of Pharmacy, Dawlameti, Nagpur on 15th March 2025.
- **Dr. Sumit Arora** contributed as a resource person in the six-month Certificate Course on GPAT Guidance and Higher Study Program, organized by BCYRC's KDK College of Pharmacy & Research Institute, Nagpur, from October to March 2025.
- **Dr. Sumit Arora** was invited as a guest speaker for the two-day seminar on "Cracking GPAT-2025: Strategies, Science, and Success," organized by Shri Vile Parle Kelavani Mandals' Institute of Pharmacy, Dhule, on 29th-30th April 2025.
- **Dr. Sumit Arora** served as a resource person during the one-week hands-on training program "From Molecules to Manuscripts: Exploring Molecular Docking, ADMET Screening, and Publishing Strategies" organized by QuickLearn360 from 28th April to 2nd May 2025.
- **Dr. Sumit Arora** delivered an interactive session on "Emerging Trends in Pharmaceutical Sciences," organized by Shri Rawatpura Sarkar College, Sagar, on May 7, 2025.
- **Dr. Gulshan Gurunani** invited as guest and jury member as poster evaluator in International Conference "Emerging Trends in Pharmaceutical Research and Innovation," organized by Sardar Patel University (MP), School of Pharmaceutical Sciences and Research Balaghat (MP) on 22nd and 23rd May 2025.
- **Dr. Sumit Arora** was invited as a resource person at the Faculty Development Programme organized by Nagpur College of Pharmacy, Wanadongri, Nagpur and delivered a session on "Artificial Intelligence in Literature Review and Research Support: A Catalyst for Academic Excellence", On 3rd June 2025.



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