



RKGIT
(Pharmacy)



Pharmaware

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VISION

To be recognized as a foremost institution imparting quality pharmacy education to aspiring pharmacists with right competencies, attitude, skills and knowledge, for the greater benefit of mankind.

MISSION

To produce highly qualified and motivated graduates possessing fundamental knowledge and soft skills, who can provide sustainable solutions to health care problems.

To develop partnerships with industries, eminent institutes and government agencies in the field of pharmaceutical sciences.

To serve the community, at local, national and international levels, with a deep awareness of our ethical responsibilities towards profession and society.

PROGRAM EDUCATIONAL OBJECTIVES

OUR GRADUATES SHOULD HAVE: -

1. Have quality theoretical knowledge and practical skills on all core and allied fields of pharmaceutical sciences, so that they can face the challenges of the globalized scenario and contribute to the progress of the nation.
2. Enjoy successful careers in all settings of Pharma sector, by engaging themselves in professional development through leadership, communication, skills, teamwork and entrepreneurship.
3. Function ethically and lawfully in professional environment and exhibit good competency in their work culture.
4. Act as a link between healthcare system and community, so as to serve the society by the transmitting their knowledge, with a sense of social responsibility.
5. Participate in lifelong learning through advanced degrees, continuing education and/or professional activities.

AKTU APPROVED PHD RESEARCH CENTRE

NBA ACCREDITED (B.PHARM)

KNOW YOUR MEDICINE

Indian Pharma Company Approvals and News

Indian pharmaceutical companies also received generic drug approvals and were involved in industry news during December 2025. Dr. Reddy's Laboratories is slated to manufacture Nuzolence globally. Lupin Limited received tentative approval for a generic cystic fibrosis treatment, and Alembic Pharmaceuticals Limited received approval for a generic ophthalmic suspension. The Indian pharmaceutical industry has also supported the FDA's new safety reporting guidance for BaBE studies.

<https://cdsco.gov.in>

NEW DRUG APPROVALS

Voyxact (sibeprenlimab-szsi): Accelerated approval for IgA Nephropathy (reducing proteinuria).

Itvisma (onasemnogene abeparvovec-brve): New intrathecal (spinal injection) route for SMA gene therapy.

Kygevvi (doxycitine + doxribtimine): Approved for Thymidine Kinase 2 Deficiency (TK2d).

Hyrnuo (sevabertinib): For non-squamous NSCLC with HER2 mutations.

Tarlatamab-dlle: Traditional approval for extensive-stage small cell lung cancer (SCLC).

Selumetinib (Koselugo): Approved for adults with NF1 and inoperable plexiform neurofibromas (PN).

Daratumumab and hyaluronidase-fihj (Darzalex Faspro): Traditional approval with standard therapy for newly diagnosed AL amyloidosis.

Armlupeg (pegfilgrastim-unne): Biosimilar to Neulasta, approved December 1, 2025.

malignancy.

<https://www.drugs.com/newdrugs.html>

HERBAL INFORMATION

PATHARCHATTA

Botanical name: *Kalanchoe pinnata*

Family: *Crassulaceae*

Kingdom: Plantae



Patharchatta (*Kalanchoe pinnata*) is a widespread succulent medicinal plant found throughout India, typically growing 3-5 feet tall. Native to Madagascar, it is known for the profusion of miniature plantlets that form on the margins of its leaves, a trait shared with other members of the Bryophyllum genus. Patharchatta requires minimal care, tolerating dry conditions and high temperatures, and thrives in slopes of dry hills as well as Indian plains. It can be propagated from the plantlets growing on the margins of its leaves by simply planting the leaf in soil, resulting in numerous new plants.

HEALTH BENEFITS:

- It reduces mutations caused by cancer-causing cells.
- It reduces blood glucose levels.
- It inhibits the growth of fungus.
- It inhibits the growth of microorganisms.
- It reduces inflammation.
- It prevents the formation of ulcers in the stomach.
- It enhances liver health.
- It strengthens the immune system.
- It protects the kidneys.

KALANCHOE PINNATA PREPARATIONS

- *Patharchatta swaras*
- *Patharchatta juice*
- Herbal syrup



<https://www.mountsinai.org/health-library/herb/kalanchoe>

STUDENT CORNER

PHAGE THERAPY: A PROMISING ALTERNATIVE TO ANTIBIOTICS

Introduction: We're facing a quiet crisis in modern medicine. Every year, nearly 1.3 million people die from infections that antibiotics can no longer kill. By 2050, that number could jump to 10 million annually—more deaths than cancer causes today. The problem? Bacteria are outsmarting our best drugs. They've developed resistance faster than we can create new antibiotics, and the pharmaceutical industry has largely given up the race. This is where phage therapy comes in. It's not exactly new, but it's making a serious comeback. Essentially, it's harnessing viruses that hunt bacteria to do what antibiotics can't anymore. But here's what's interesting: this idea isn't some recent breakthrough. It's been around for over a century. We just forgot about it for a while.

Methodology: The mechanics are elegant in their simplicity. A bacteriophage is a virus, but it's wildly specific—it targets only certain bacterial species, sometimes even specific strains. That's the first major difference from antibiotics, which are like sledgehammers, killing good bacteria alongside the bad ones. When a phage encounters its target, it attaches to the bacterial cell surface, injects its genetic material, and essentially hijacks the cell. The bacteria's machinery stops doing what it normally does and starts making copies of the phage instead. Within hours, the bacterial cell ruptures from the inside, releasing hundreds of new phages ready to infect neighboring bacteria. This creates an exponential effect—a small dose keeps growing as it spreads. It's self-amplifying. We don't need massive quantities; the phages multiply themselves at the site of infection. That's called auto-dosing, and it's actually quite efficient. The key point is this: only the harmful bacteria die. Your gut flora—the bacteria you actually need—remains untouched because phages are so choosy about their targets.

Regulatory aspects: As of late 2025, there are over 90 clinical trials for phage therapies running globally. The FDA is moving faster than expected, with nearly 41 bacteriophage studies in various stages of development. Patients with nowhere else to turn can already access phages through compassionate use programs. The European Medicines Agency is crafting formal approval pathways. It's not here yet as standard treatment, but it's coming. The challenges remain real—consistent manufacturing, bacterial resistance that still develops, immune responses that sometimes neutralize the phages. But these are engineering problems, not fundamental flaws. Genetic engineering is already producing modified phages that overcome many of these hurdles. Artificial intelligence is helping identify which phages work best against specific bacteria faster than ever before.

conclusion: Phage therapy represents something almost poetic: a solution we discovered, abandoned, and are now rediscovering because we finally understand the problem we're facing. It's not a perfect answer to antibiotic resistance, but it might be exactly what we need right now. Within the next decade, it could shift from experimental to routine. For pharmacy students and future healthcare providers, understanding phage therapy isn't optional anymore. It's the future.

Vansh Bhargav and Utkarsh Malkani

B.Pharm 2nd year

References

- *Furfaro LL, et al. Bacteriophage Therapy: Discovery, Development, and FDA Approval Pathways. Journal of Clinical Investigation, 2025*
- *Lobočka M, et al. Current Status of Bacteriophage Therapy for Severe Bacterial Infections. Nature Microbiology Reviews, 2024*
- *Suh GA, et al. Regulations of Phage Therapy Across the World. European Journal of Pharmaceutics, 2023*

NEWS AT A GLANCE

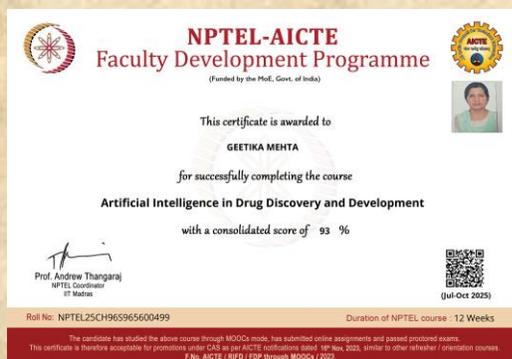
TALK ORGANIZED

RKGIT(Pharmacy) organized a talk on scope of pharmacy in global scenario on 14th oct 2025. Prof. (Dr.) Neeraj Kumar Fuloria (AIMST University, Semelling campus, Kedah, Malaysia) was the guest speaker on this occasion. Dr Munendra Mohan Varshney (Dean SW and Proctor) welcomed the Guest. Dr. Fuloria explained and explored the scope of pharmacy opportunity globally. All the students of pharmacy benefited with valuable insights delivered by Dr Fuloria also interacted with speaker. Dr Monika Sachdeva (Principal, Pharmacy), Dr Laxman Prasad (Group Advisor) and faculty members were present in this talk.



FDP ATTENDED

Ms. Geetika Mehta (Associate professor) has completed NPTEL-AICTE, Faculty development program on AI in drug discovery and development with consolidate score of 93%.



VISIT ORGANIZED

RKGIT organized an educational hospital visit for Diploma in Pharmacy 1st and 2nd year students on **Friday, 21st November 2025, at the Primary Health Centre (PHC), Bhovapur Block, Razapur District, Ghaziabad.** The visit was conducted in collaboration with the **Indian Pharmaceutical Association (IPA), Delhi State Branch,** as part of the celebrations for **National Pharmacy Week (NPW) 2025.** The theme for NPW 2025 was **“Pharmacist as Advocate of Vaccination”** The objective of the visit was to provide students with practical exposure to the functioning of primary healthcare services, vaccination procedures, record maintenance, patient counselling, and the role of healthcare professionals in public health programs. The event was smoothly coordinated by **Ms. Shalu and Mr. Mukesh Bansal.**



An industrial visit was organized by RKGIT Pharmacy to one of the leading industry **Dr. Willmar Schwabe India Pvt. Ltd. Noida** on 18th Dec 2025. All B. Pharm IV (VII Sem) students participated in the visit. The visit was supervised by **Prof. (Dr.) Dilip Kumar Gupta** (T&P, Industry, Hospital Training Coordinator, Pharmacy) along with **Mr. Harsh Goswami** and **Ms. Kanika Titoria** (Assistant Professor). The purpose of the visit was to aware the students about the necessary information regarding the safe use of medicines and the formulation of natural healthcare products. Students also visited the quality control department as well as learned the methodology of various instruments like Gas Chromatography, I.R spectroscopy etc. they were also explored the area of research and development.



WORKSHOP ORGANIZED

The Department of Pharmacy, RKGIT, organized a workshop on “**Decoding Multi-Target Interactions through Network Pharmacology**” on **4th November 2025**. The session was conducted by **Dr. Sachin Kumar**, Assistant Professor, Department of Pharmacology, **Delhi Pharmaceutical Sciences and Research University (DPSRU), New Delhi**. The primary aim of the workshop was to introduce participants to the fundamental concepts and applications of **Network Pharmacology** in modern drug discovery and development. The session provided students with valuable insights and hands-on experience in both **experimental** and **computational techniques** relevant to the field. Students from **B.Pharm** and **M.Pharm** programs actively participated in the workshop. The event offered an excellent platform for learners to enhance their understanding of advanced pharmacological approaches and explore innovative strategies in drug research. the workshop was coordinated by Ms. Geetika Mehta (Associate professor).



BLOOD DONATION CAMP ORGANIZED

RKGIT (Pharmacy), in collaboration with Rotary Club Ghaziabad, organized a blood donation camp on 13th October 2025. Faculty, students and staff members of RKGIT actively participated and donated blood for noble cause.



NEC 2025

A Preliminary Round of the National Elocution Competition was organized by RKGIT (Pharmacy) in association with the IPA, Delhi Branch, Education Division on 15th October 2025. Students of M.Pharm and B.Pharm actively participated. The topic for elocution was “Think Health, Think Pharmacist”, aiming to promote awareness of the pharmacist's pivotal role in healthcare.



FACULTY/STUDENTS PARTICIPATED IN INTERNATIONAL CONFERENCE

RKGIT Pharmacy faculty and Students of M.Pharm (Pharmacology) actively participated and presented posters in the International Conference on “Frontiers in Pharma: Integrating AI, Nano-Engineering & Genomics in Drug Discovery and Delivery” held at AMITY University on 29th–30th September 2025. Their research contributions reflected the integration of advanced technologies in pharmaceutical sciences.



GUEST SPEAKER

Prof (Dr.) Munendra Mohan Varshney delivered a talk on Modern Drug Design Approaches in Drug discovery at Global Institute of Education and Research, Kashipur (UK) on 29th Dec 2025. Dr. Deepak Teotia, Director, GIPER was the convener of Guest Talk.



STUDENT ACHEIVMENTS

NPTEL Certification in Ai-Based Drug Discovery

RKGIT (Pharmacy) students successfully completed the NPTEL course titled “Artificial Intelligence in Drug Discovery and Development” conducted during July–October 2025. Their outstanding performance reflects the institute’s commitment to integrating emerging technologies in pharmaceutical education. These certifications underscore their active engagement in advancing their knowledge in AI-driven drug discovery.

Following Students honored with NPTEL certification:

- **Bhavishya Yadav (IV yr) – Scored 68%**
- **Shalini Anand (IV yr)– Scored 70%**
- **Vaishnavi Kumari (IV yr)– Scored 80%**

Sports

RKGIT organized State-Level Sports Fest of Dr. A.P.J. Abdul Kalam Technical University (AKTU) on 16-18th Oct 2025. Gopal Arora, (B.Pharm 2nd year), secured 1st position in Kabaddi at the Zonal Level and 2nd position at His achievements reflect the sporting spirit and dedication of RKGIT (Pharmacy) students.



Wishing all the readers
HAPPY
NEW YEAR 2026

REGARDS
Pharmaware Team

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