

VESAJA SPECTRUM

A HALF-YEARLY NEWSLETTER OF MGCOP



MATA GUJRI COLLEGE OF PHARMACY

A Constituent Unit of Mata Gujri University, Kishanganj, Bihar, India

ISSUE – 2, DECEMBER 2025

College at a Glance with Newly Inducted M. Pharm Courses

Mata Gujri College of Pharmacy (MGCOP), a constituent unit of Mata Gujri University at Kishanganj, Bihar, is a premier pharmacy institution accredited by the Pharmacy Council of India, New Delhi. It offers D. Pharm, B. Pharm, and sanctioned M. Pharm programs in Pharmaceutics, Pharmaceutical Chemistry and Pharmacology, with 15 seats for each course. MGCOP has specialized M. Pharm Labs for each of its M. Pharm viz, Pharmaceutics, Pharmacology and Pharmaceutical Analysis. MGCOP is functioning with various state-of-the-art labs that provide students with hands-on learning experiences and practical skills essential for academic excellence and professional growth.

Under the able leadership of **Prof. (Dr.) Saumendu Deb Roy**, Dean Academics, **Prof. (Dr.) Dibyendu Shil**, Principal MGCOP, along with Heads of the Department, has created and developed a sustainable research environment. **Prof. (Dr.) Niladri Shekhar Dey**, HoD, Pharmaceutics, with his vast experience in the molecular research background, is handling the M. Pharm Pharmaceutics lab. The Pharmaceutics lab serves as a bridge between theory and practice, encouraging innovation, research and skill development in the specific field of drug manufacturing and prepares students for careers in academia, industry and healthcare. **Prof. (Dr.) Sibaji Sarkar** takes care of the Pharmaceutical Analysis labs and orates about various equipment present in the central instrumentation centre and understanding their proper usage. Regular practice of drug investigation techniques such as synthesis, purification and analysis is carried out in this centre. It was dedicated to training students in the qualitative and quantitative analysis of drugs and formulations. It provides hands-on experience with modern analytical techniques that ensure the quality, safety and efficacy of pharmaceuticals. **Prof. (Dr.) Jashabir Chakraborty** developed the Pharmacology lab with the latest equipment and software to provide students with practical exposure to the study of drugs, their mechanisms of action and therapeutic applications. It bridges classroom knowledge with real-world experimentation, ensuring strong foundations in experimental pharmacology and drug evaluation. The pharmacology lab demonstrated drug actions using animal models, simulations, and ethical alternatives (software-based experiments as per CPCSEA guidelines).



Achievements of MGCOP
Students' Achievements in Competitive Examinations (2025)

Sl. No.	Student Name	Examination Qualified	Year	All India Rank
1	Tridevendra Nath	GPAT	2025	100
		NIPER		55
		GATE		398
		CUTE PG		137
2	Shreya Pal	GPAT	2025	155
NIPER	488			
3	Tannistha Das	GPAT	2025	767
NIPER	1532			

#GPAT – Graduate Pharmacy Aptitude Test, NIPER – National Institute of Pharmaceutical Education and Research, GATE – Graduate Aptitude Test in Engineering, CUET PG – Common University Entrance Test – Postgraduate

Industrial Training of Students

Sl. No.	Industry of Training	No. of Students Trained	Year
1	Stadmed Pvt. Ltd. Kolkata, West Bengal	24	2025
2	Dr. Sain's Laboratory, NS Road Hariharpur, Kolkata, West Bengal	07	2025
3	Gluconate Health Limited, Kolkata, West Bengal	16	2025
4	CIPLA SIKKIM	02	2025
5	PASCHIM BANGA PHARMACEUTICAL	10	2025
6	PALSONS DERMA PVT. LTD.	10	2025
7	GLENMARK PHARMACEUTICALS	08	2025
8	INDCHEMIE HEALTH CARE	04	2025
9	MACLEODS CASCA REMEDIES	04	2025
10	ZYDUS SIKKIM	02	2025
11	MANKIND PHARMA	01	2025

Publication by the Faculty Members

1. **Pranita Sunar.** Endophytes: A Future Prospective to Drug Development. American Journal of PharmTech Research. 2025; 15(04): 123-138.
2. **Amrit Paul, Sukanta Debnath, Subham Roy, Tanmay Mohanta, Jagjot Gautam.** Organ-specific applications of nanomedicine: A review of targeted delivery systems in major human organs. Journal of Population Therapeutics & Clinical Pharmacology. 2025; 32(06): 1154-1163.
3. **Jagjot Gautam, Amrit Paul, Anil Parasnath Sao,** Vivek Kumar Singh, Kumar Priyadarshi, Shivam Kumar. Estimation of chlorides, sulphates and iron contaminants in bulk drugs from MGCOP college store and industrial samples using conventional analytical methods and nepheloturbidometry method. European Journal of Pharmaceutical and Medical Research. 2025; 12(08): 2394-3211.
4. **Amrit Paul, Gautam Jagjot, Saumendu Deb Roy, Dibyendu Shil,** Vivek Kumar Singh, Priyadarshid Kumar, Shivam Kumar. A comparative review on conventional and nepheloturbidometric methods for estimation of inorganic contaminants in bulk drugs. International Journal of Biomedical Research Science. 2025; 1(1): 1-8.
5. Susankar Kushari, Dipankar Saha, Jun Moni Kalita, Tutumoni Kalita, Pratap Kalita, **Jashabir Chakraborty,** Suman Kumar, Trishna Das, Lima Patowary. An insight into silico and in vitro evaluation of catechins and L-theanine from *Camellia sinensis* (L.) against Alzheimer's disease targeting cholinesterases and β -secretase. In Silico Research in Biomedicine. 2025; 1:100020.
6. **Amrit Paul, Jagjot Gautam, Jashbir Chakraborty,** Madhu Singh, Abhishek Kumar Sinng, Md Nadeem Akram, Md Arwaz Ahmad. Dose response curve of acetylcholine, its modification by water extract of *Allium sativum* and estimation of PD₂ value taking atropine as a standard drug. Journal of Neonatal Surgery. 2025; 14(28s):515.
7. **Sushanta Kumar Das, Dibyendu Shil, Amit Samanta, Subham Roy, Chayanika Goswami.** Potential of biological macromolecules as an innovative approach for diabetes management: A review. Journal of Innovations in Pharmaceutical and Biological Sciences. 2025; 12(1):21-39.
8. **Bishal Sarkar.** Nanocarriers unlocking next-gen drug delivery. Indian Research Journal of Pharmacy and Science. 2025; 12(2):3242.
9. **Bishal Sarkar.** Mini tablets in modern pharmaceuticals: A comprehensive review of formulation, evaluation, and clinical applications. International Journal of Pharmacy and Pharmaceutical Sciences. 2025; 17(9):8-14.
10. **Bishal Sarkar, Shiva Das.** The role of pharmacogenomics in personalized therapeutics: A crossroad between pharmaceutical and biomedical sciences. American Journal of PharmTech Research. 2025; 15(4):11-26.
11. **Bishal Sarkar,** Md. Akmal Reza, Ritesh Kumar. Physicochemical and preformulation profiling of acetaminophen: A strategic approach toward formulation suitability. YMER. 2025; 24(5):1684.
12. Aditi Anand, Faizi Alam, **Subham Roy, Chayanika Goswami.** Phytochemicals and health benefits of *Moringa oleifera*: A comprehensive review. International Journal of Pharmaceutical Sciences. 2025; 3(6):3525-3537.
13. Md. Haroon Rashid, Subham Kumar, Md. Masoom Reza, Manish Rajdev, **Tanmay Mohanta.** Starch-based biodegradable film materials for smart packaging. International Journal of Pharmacy and Pharmaceutical Research. 2025; 31(8):124.

14. **Jagjot Gautam, Amrit Paul, Subhasish Saha, Saryam Mal, Tanmay Mohanta, Sabitri Pradhan, Niharjyoti Saharia, Anil Parasnath Sao.** Management of drug-resistant tuberculosis in pregnancy: Epidemiology, challenges, and treatment strategies. *Journal of Neonatal Surgery*. 2025; 14(23s):498-506.
15. **Bishal Sarkar, Amit Samanta.** In silico toxicokinetics in next-generation risk assessment: The evolving role of PBPK and QIVIVE models. *Indian Research Journal of Pharmacy and Science*. 2025; 12(3):3338.
16. Paramita Ganguly, **Puja Saha, Sandip Chatterjee, Prangya Paramita Pati.** Natural marine species bioactive compounds and their ethnopharmacological approach from ecological biodiversity: Sustainable therapeutic properties. *Pharmacognosy Research*. 2025; 17(3):697-706.
17. **Niladri Shekhar Dey, Shreya Pal, Puja Saha, Amit Samanta, Pankaj Kumar Ram, Md Shahjaha.** Development of metronidazole loaded multiple emulsion for sustained release medication. *International Journal of Pharmaceutical Sciences*. 2025; 3(7):2661-2670.
18. **Amit Samanta.** Green nanotechnology: toward sustainable pharmaceutical innovation. *Indian Research Journal of Pharmacy and Science*. 2025; 12(3):3320.

Books and Book Chapters Published by Faculty

Sl. No.	Author's	Title	Book/Book Chapter	Publisher	Year
1	Amit Samanta, Chayanika Goswami, Jashabir Chakraborty, Saumendu Deb Roy, Dibyendu Shil, Manab Deb Adhikari, Ahed J. Alkhatib	Micro and Nano Plastics: Identification and Quantification Methods	Book Chapter	Springer Nature	2025
2	Jashabir Chakraborty, Dibyendu Shil, Saumendu Deb Roy, Amit Samanta, Diptendu Bhowmik, Sharbani Roy, Manab Deb Adhikari, Pankaj Kanti Jodder	A Comprehensive Review of Micro and Nanoplastics-Mediated Cardiovascular Complications	Book Chapter	Springer Nature	2025
3	Anil Parasnath Sao, Amrit Paul, Jagjot Gautam, Tanmay Mohanta, Niharjyoti Saharia	Targeted Therapies in Obesity Management (Emerging Trends in Pharmaceutical Sciences and Clinical Studies)	Book Chapter	Zen Toks Books	2025
4	Amrit Paul, Jagjot Gautam, Jaydip Mahata, Niharjyoti Saharia Tanmay Mohanta, Prasenjit Bhuniya	Textbook of Pharmacotherapeutics	Book	Astiva Prakashan	2025

5	Jagot Gautam, Amrit Paul, Subham Roy, Rona Mandal, Manoj Kashyap, Mansita Saha, Abu Mahammad Makiuz Zaman	Biochemistry and Clinical Pathology	Book	Astiva Prakashan	2025
6	Ujjwal Sahoo, Rakesh Chawla, Sushanta Kumar Das	A Handbook of Objective/Subjective Questions on Pharma Marketing Management	Book	Current Books International	2025
7	Narendra Kumar Nyola, Manish Beniwal, Pawan Kasaudhan, Subhasish Saha	Pharmaceutical Terminology- Vol.II	Book	Mantra Publication	2025
8	Ramesh Kumari Dasgupta, Saumendu Deb Roy	A Textbook of Practical Medicinal Chemistry	Book	BFC Publications	2025
9	Kiran Chandrakant Mahajan, Hemant Arun Deokule, Puja Saha, Jyoti Gopichand Rathod, Vaishali Kailas Ghume	Biostatistics and Research Methodology	Book	Evincepub Publishing	2025
10	Puja Saha, Hemendra Mishra, Sourav Khawas	A Textbook on Basic Concepts of Pharmaceutics	Book	Newredmars Education Pvt Ltd	2025
11	Puja Saha, Niladri Shekhar Dey, Dibyendu Shil, Debjani Sarkar	Nanoemulgel	Book Chapter	Evincepub Publishing	2025
12	Chetan Prakash Pulate, Puja Saha, Sachin Namdeo Naik, Kalleshvar Prabhuraj Jatte, Rahul Nimba Patil	MCQ'S in Pharmaceutical Medicinal Chemistry for GPAT& NIPER	Book	Evincepub Publishing	2025

Patent Publications by MGCOP

SL No.	Faculty Name	Patent Application Number	Published Date	Awarded (Patent grant no)	Subject Topic	Patent type	Country
1.	Dr. Niladri Shekhar Dey, Dr. Sibaji Sarkar, Dr. Dibyendu Shil, Dr. Sushanta Kumar Das, Dr. Saumendu Deb Roy, Dr. Jashabir Chakraborty	2024311050 16 A	10/01/2025	Yet to get	Formulation of [FITC antihuman CD340 (crbB2/HER-2)] antibody tagged nanoliposome for dual receptor independent targeting in breast cancer cells and method of preparing the same.	Research Patent	Indian
2.	Dr. Niladri Shekhar Dey, Dr. Saumendu Deb Roy, Dr. Dibyendu Shil, Dr. Jashabir Chakraborty, Mr. Saptarshi Dutta	455093-001	09/07/2025	455093-001	Device for testing disintegrating tablet composition	Design Patent	Indian
3.	Dr. Dibyendu Shil Dr. Saumendu Deb Roy Dr. Jashabir Chakraborty Dr. Niladri Sekhar Dey Dr. Sibaji Sarkar Dr. Sushanta Kumar Das Mr. Subhasish Pramanik Miss Garima Kumari	2025310607 15 A	04/07/ 2025	Yet to get	Polyherbal face toner formulation and method of preparation thereof	Research Patent	India

Poster/E-Poster/Oral Presentation by Faculty

Sl. No.	Name	Title	Level
1	Dr. Niladri Shekher Dey	Design and fabrication of antibody tagged nanolipid vesicles for targeting breast cancer cells”	International
2	Mr. Saptarshi Dutta	Development of Atorvastatin-Loaded Sodium Alginate-Pectin Film for Chronic Wound Healing	National
3	Mr. Saptarshi Dutta	Development and Assessment of Promethazine Hydrochloride Mouth Dissolving Film	National
4	Ms. Puja Saha	Poster Presentation- Potential Antimalarial Activity of Nano formulation Containing Phytochemical Molecule of <i>Artemisia annua</i>	International
5	Mr. Tanmay Mohanta	Oral Presentation- Mechanistic Approach of Tamoxifen Citrate Loaded Nanodevices for Breast Cancer Therapy	International

FDP attended by the faculty

Sl.No.	Name	Title	Date	Place
1.	Mr. Bishal Sarkar	Tools and Techniques, Basic Concepts, Understanding and Application of Research Methodology	4 th -8 th Aug, 2025	Haldia Institute of Pharmacy, Haldia.
2.	Mr. Diptendu Bhowmik Ms. Chayanika Goswami Mr. Sanglap Mallick Mr. Arka Prabha Pal Mr. Subhasish Pramanik Mr. Mrityunjay Singh Mr. Niharjyoti Saharia Mr. Subham Roy	Interdisciplinary Research & Innovation in Pharmaceutical Sciences	26 th -30 th Aug, 2025	BM College of Pharmacy, Gurugram.
10.	Mrs. Sarbani Roy Mr. Amit Samanta Ms. Puja Saha	Artificial Intelligence and Machine learning	15 th -19 th Sept, 2025	Rajiv Gandhi University (A Central University), Arunachal Pradesh in Association with Pantech e learning

Faculty selected as Reviewers for scientific journal

1. **Dr. Dibyendu Shil** was selected as a reviewer for the **Journal of Applied Pharmaceutical Research**.
2. **Dr. Sushanta Kumar Das** was selected as a reviewer for **Springer Nature Journals**.
3. **Mr. Subhendu Dey** was selected as a reviewer for the **Carbohydrate Polymers Journal (Elsevier)**.
4. **Mr. Anil Parasnath Sao** was selected as a reviewer for the **Asian Journal of Current Research**.
5. **Miss Puja Saha** was selected as a reviewer for the **Journal of Applied Pharmaceutical Research, Journal of Pharmacy and Bioallied Sciences, Asian Journal of Research and Reports in Endocrinology, Asian Food Science Journal and Indian Journal of Pharmaceutical Education and Research**.

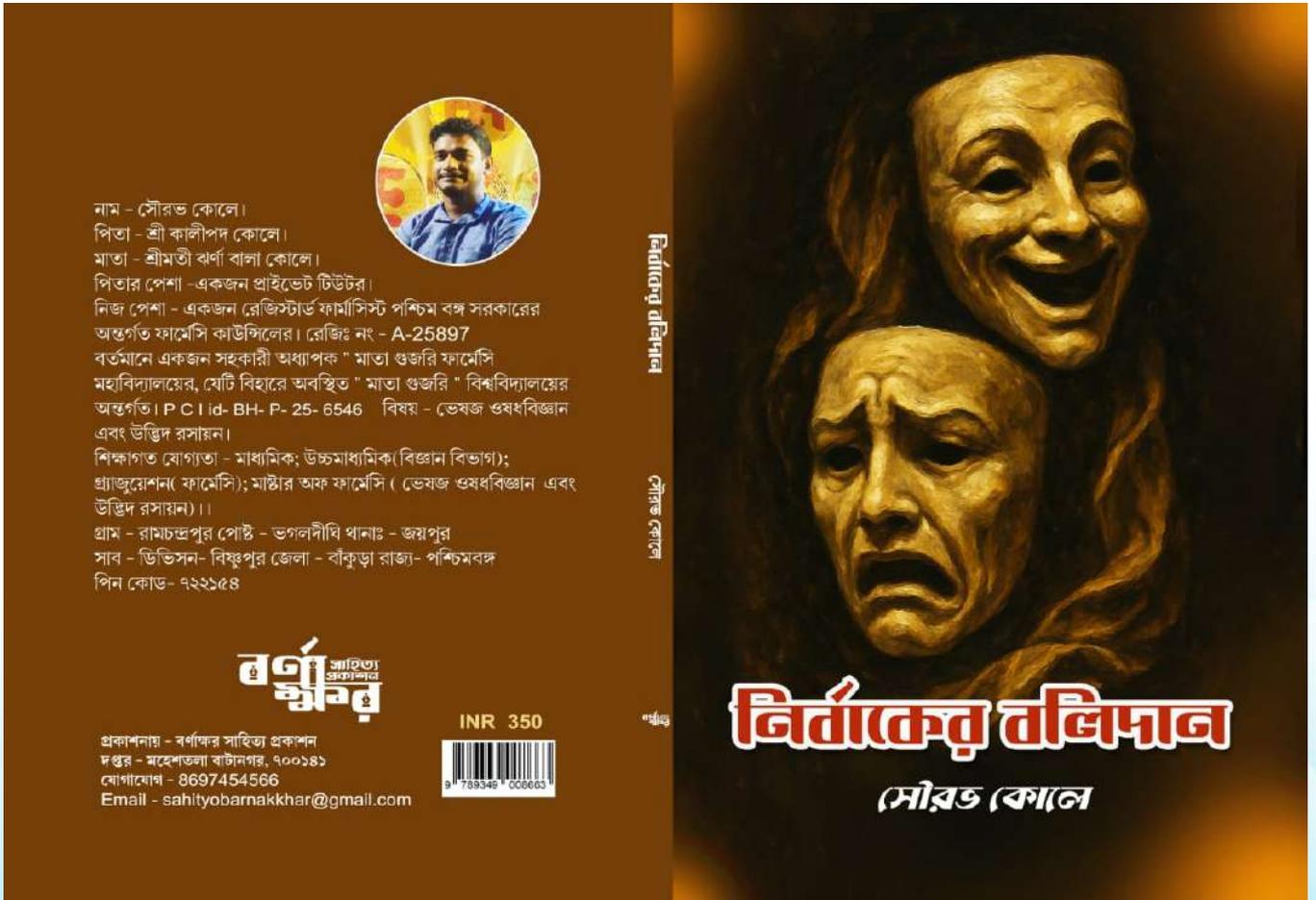
Faculty went as evaluators for seminars/conferences/workshops

1. **Dr. Niladri Shekhar Dey** was invited as a guest and poster evaluator for **GGC-Pharmacon 2025**, Organized by Gitanjali Group of Colleges on 29th February 2025.
2. **Dr. Sushanta Kumar Das** was invited as a guest and poster evaluator for **GGC-Pharmacon 2025**, Organized by Gitanjali Group of Colleges on 29th February 2025.
3. **Dr. Dibyendu Shil, Miss Mrs. Sarbani Roy, Puja Saha and Miss Didhiti Dey** were invited as guests and poster evaluators for **APTICON-2024**, Organized by Utkal University, Vani Vihar, Bhubaneswar, on 27th – 28th September 2024.

Book published by Faculty

1. **Mr. Sourav Kole** has published a Drama book named “**Nirbaker Balidan**”.

This book is published by The National Library, Kolkata



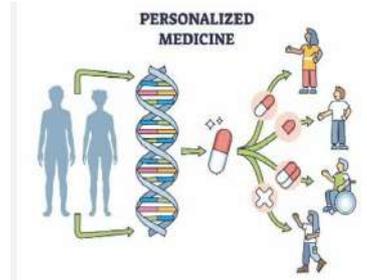
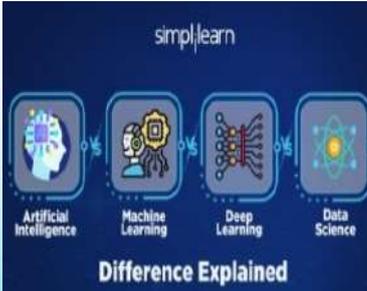
Feature Article

Current Professional Trend in Pharmaceutical Science

Shreya Pal, B. Pharm (2021-2025)

Introduction: In recent years, pharmaceutical sciences have grown quickly with various changes driven by new technologies. These are not only improving the field but also creating teamwork around the globe with a target of better patient care. This approach helps to develop faster drug development & enhanced personalized care with improved patient outcomes. The pharmaceutical field is full of new possibilities. Here we explain the top six trends that are currently trending, their importance and related additional courses to build these skills. This will help to prepare everyone involved in pharmaceutical science for a successful career in this fast-changing industry

Various professional trends in pharmacy:

<p>Telepharmacy & Digital Health: The integration of remote pharmaceutical care and digital health solutions is growing. This field requires communication and consultation skills for remote patient interaction, proficiency in digital health technologies and platforms, an understanding of data privacy and security regulations, and skills in patient education and engagement. For example, patients in rural areas can consult with pharmacists remotely via video calls and receive medication deliveries, demanding telehealth expertise. Professionals need good communication skills for talking to patients remotely, comfortable enough to operate computers and online systems for dispensing and patient information.</p>	
	<p>Focus on rare disease & orphan drugs: There's an increasing focus on developing therapies for rare diseases that affect small patient populations, often supported by specific regulatory incentives. Understanding the unique challenges of rare disease research and development, navigating orphan drug regulations, and developing specialized clinical trial designs for small populations.</p>
<p>Personalized Medicine: This trend focuses on modifying treatments to the individual characteristics of each patient, particularly their genetic information. To thrive in this area, pharmaceutical scientists need strong analytical skills to interpret complex genetic data, bioinformatics expertise to manage and analyze large datasets, and a deep understanding of pharmacogenomics to correlate genetic variations with drug responses. The aim is to enhance treatment efficacy, minimize side effects, provide more accurate dosages, and develop targeted therapies, especially for cancer and chronic diseases.</p>	
	<p>Biopharmaceuticals and Gene Therapy: The development and advancement of biological drugs (e.g., monoclonal antibodies, vaccines) and gene therapies represent a significant trend. This area requires strong bioprocessing skills to produce biologics, expertise in molecular biology and immunology, and a thorough understanding of gene editing technologies and viral vectors.</p>
<p>Artificial Intelligence (AI) and Machine Learning (ML): The utilization of AI and ML algorithms in drug discovery and development is rapidly increasing. These technologies help analyze vast datasets to identify potential drug candidates, predict efficacy, optimize clinical trial designs, and reduce the time and cost associated with bringing new drugs to market. Success in this field demands programming skills (e.g., Python, R), a solid understanding of machine learning principles, data science expertise to analyze large datasets, and statistical analysis skills to detect model outputs.</p>	

Effects of Plastic on Human Health

Rahul Mukherjee, B. Pharm (2021-2025)

Introduction

Plastics are a group of semi-synthetic organic compounds that are conventionally synthesized from fossil fuels, and novel bioplastics can also be synthesized from renewable biomass sources. Plastics are incredibly resistant to

corrosion and are conveniently flexible; hence, they can be moulded into any form. With suitable additives, it is possible to vary their opacity, thickness, elasticity and thermal properties. It is no wonder that plastic is now an integral part of human life and it's everywhere. Plastics are present in food packaging to mobile phones in everyone's lives. Plastic is so popular because it lasts a long time, can be shaped into anything and doesn't cost much to produce. It's difficult to think about packing any lunch or drinking anything without the touch of plastic. This convenience has made plastic a huge part of human life, with millions of tons produced every year. With its goodness starts the problem too! Plastic isn't as safe as it looks. It can harm our health in many



ways. Very small pieces called micro-plastics and chemicals like Bisphenol A (BPA) are mixed into food, water and air, leading to an increase in various health conditions, including respiratory problems, hormonal imbalance and even cancer. Studies have found microplastics in human blood, lungs and even in fetuses, highlighting how serious the issue is. Plastic pollution is a growing concern because it not only harms the environment but also affects human health. For example, drinking from a plastic bottle might mean swallowing small pieces of plastic without even knowing it.

Health Risks of Plastics

Plastics harm our health through their chemicals and small pieces of plastic that get into us. Here are the main health problems they cause: -

- **Allergies and Asthma** get worse with plastics. Breathing in plastic dust or fumes can irritate lungs, cause a cough or make asthma harder to control.
- **Hormone Disruption** happens when chemicals like BPA and phthalates act like hormones and cause problems like weight gain, diabetes, fertility problems and even early puberty.
- **Developmental Problems** are a big risk for kids. Chemicals in plastics can affect brain growth, leading to learning difficulties or behaviour issues like attention deficit hyperactivity disorder (ADHD).
- **Cancer** risk is a major concern, as chemicals like styrene, phthalate and BPA have been linked to breast, liver and prostate cancer with long-term exposure.



Moreover, micro-plastics are even more harmful because they have toxic chemicals, which can get into the body and cause long-term damage. They can disrupt hormones, affect organs like the liver and lungs and may even contribute to diseases like cancer.

Solutions to the Plastic Crisis & Future Prospects

The plastic crisis is huge, but it can be solved with actions from governments, companies and everyday people.

- **Government actions** are crucial. Many countries, like India in 2022, have banned single-use plastics such as bags and straws. Governments can also ban harmful chemicals like BPA in food containers and toys. Taxes on plastic production will force the companies to reduce plastic use.
- **Corporate Responsibility** means companies must proceed to eco-friendly packaging, recycle more and design reusable products. For example, a soda company tested plant-based bottles in 2023, aiming to replace plastic. Investing in solutions like enzymes to break down plastic can help reduce waste.
- **The Role of Individuals** is powerful; Individuals can help by using reusable bottles, buying unpackaged foods and choosing natural fabrics. Small actions like these can make a big difference and reduce plastic usage significantly.
- **New Materials and Circular Economy** offer hope, scientists are making plastics from plants, like corn or seaweed, that break down faster and can replace plastic. A circular economy means reusing or recycling everything, like a bottle that gets refilled instead of thrown out.

By combining these steps, we can reduce the plastic problem. The future looks brighter with these solutions.



News & Updates of MGCOP

International Yoga Day

International Yoga Day was celebrated with great enthusiasm at Mata Gujri College of Pharmacy, Kishanganj, Bihar. The program emphasizes the importance of yoga in promoting physical, mental, and spiritual well-being. Faculty members and staff actively participated in various yoga sessions, including breathing exercises, meditation, and asanas under the guidance of trained instructors. The event not only encouraged healthy lifestyle practices among participants but also emphasized the role of yoga in reducing stress and enhancing concentration, aligning with the global theme of holistic health and harmony.



Placement Drive by Med Plus, July 2025

Mata Gujri College of Pharmacy organized a successful placement drive by MedPlus on 5th July 2025 at the University Building. A total of 57 students, both B. Pharm and D. Phar enthusiastically participated in the selection process. After a thorough evaluation, 41 candidates were selected to join MedPlus. Out of 41 students, 36 were selected for the Bengaluru location and 5 were selected for the West Bengal location. An interactive session was also conducted on the topic “Career in Clinical Pharmacy”. The session offered scope, opportunities and challenges in the clinical pharmacy sector. Students actively engaged in discussions, raising queries and gaining clarity about career progression, skill development and industry expectations.



Farewell *HAYAH SHALAM*, July 2025

The Mata Gujri College of Pharmacy organized a grand farewell ceremony titled *HAYAH SHALAM* on 7th July 2025 to bid adieu to the outgoing batch of students. The event was marked by a blend of emotions, nostalgia and heartfelt memories shared among students, faculty and staff. The program commenced with a warm welcome address by the faculty members, highlighting the achievements and contributions of the graduating students during their academic journey. The event was filled with vibrant cultural performances, including dances, songs and skits presented by the juniors, which created an atmosphere of joy and celebration.



Placement Drive by Infoclin Consultancy- July 2025

A placement drive was successfully organized by Mata Gujri University on 25th July 2025 in collaboration with **Infoclin Consultancy** for the B. Pharm students of MGCOP. The drive aimed to provide career opportunities for the students and bridge the gap between academic learning and industry requirements. As a part of the program, an interactive session on the topic “**From Pharmacy to Clinical Research: A Guide to Thriving Careers in Biomedical Healthcare**” was conducted, which witnessed the participation of 30 enthusiastic students. This session provided valuable insights into emerging career pathways and inspired students to explore diverse opportunities in the healthcare sector. The drive included a series of selection rounds, comprising an aptitude test, group discussion and personal interview. After a rigorous evaluation, three students were successfully selected for placement by Infoclin Consultancy. The university expressed its appreciation towards Infoclin Consultancy for their support and assured continued efforts to facilitate such industry-academia interactions for the benefit of students.



Anti Ragging Week

Anti-Ragging Week was observed at Mata Gujri College of Pharmacy from 12th to 18th August 2025 with great enthusiasm and active participation from students and faculty. The week-long program aimed to spread awareness about the harmful effects of ragging and promote a safe, inclusive and supportive campus environment. Various activities were organized, including an interactive session where students openly discussed the importance of mutual respect and the consequences of ragging. A poster-making competition on the theme “**Youth Against Ragging**” encouraged students to showcase their creativity and strong messages against this social menace. A logo design competition on the theme “**Ragging Free Campus**” provided a platform for students to express their vision of a safe academic atmosphere. These initiatives inspired students to contribute towards building a respectful and harmonious college culture.



Recent Drug Approval & Recall

List of recent approved drugs:

Wayrilz (rilzabrutinib) Tablets

Company: Sanofi

Date of approval: 29th August 2025

Description: It is a kinase inhibitor indicated for the management persistent or chronic immune thrombocytopenia in adults who have had an inadequate response to prior therapy.



Acotremon (tryptyr) Ophthalmic Solution

Company: Alcon

Date of approval: 28th May 2025

Description: Acotremon is an ophthalmic solution used to treat signs and symptoms of dry eye syndrome. It belongs to the category of transient receptor potential melastatin 8 (TRPM8) agonists, and it works by increasing the tear production

Clesrovimab-cfor (Enflonsia) Injection

Company: Merck & Co., Inc.

Date of approval: 9th June 2025

Description: Clesrovimab-cfor is a fusion inhibitor or long-acting monoclonal antibody targeting the F protein the respiratory syncytial virus (RSV), intended for administration as a single dose (irrespective of weight) to newborns, providing immediate, sustained protection against a range of RSV disease severity, including progression necessitating hospitalization.



Inlexzo (gemcitabine intravesical system)

Company: Johnson & Johnson

Date of approval: 9th September 2025

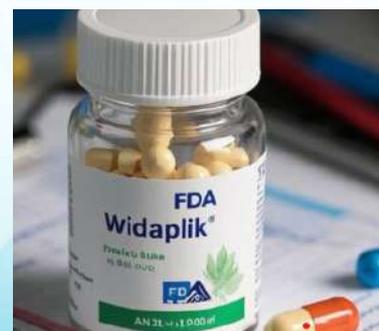
Description: Inlexzo is used to treat adults with non-muscle invasive bladder cancer that has not progressed to other areas of the body and has not responded to BCG therapy (Bacillus Calmette-Guérin). This novel intravesical medication delivery method delivers gemcitabine therapy straight to bladder cancer cells.

Widaplik (Amlodipine, Indapamide and Telmisartan) Tablet

Company: George Medicine

Date of Approval: 5th June 2025

Description: Widaplik is a single pill, triple combination therapy for the treatment of hypertension



Recently recalled drugs:

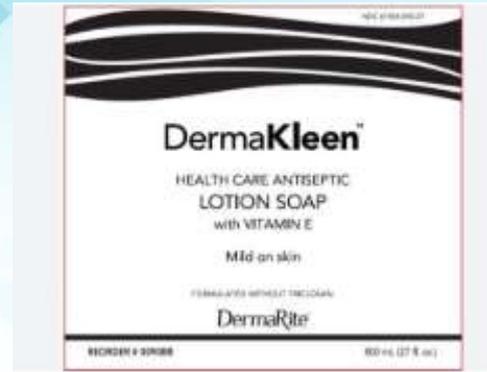
Product Recall: Dermakleen Soap

Company: Dermarite Industries

Location: United States

Date of Recall: 8th August 2025

Description: Dermarite industries voluntarily recalls this product due to microbial contamination identified as *Burkholderia cepacia* which may cause life-threatening infection.



Product Recall: Green Lumber Dietary Supplement

Company: Green Lumber Holding, LLC.

Location: California

Date of Recall: August 29, 2025

Description: Green Lumber Holding, LLC alerts consumers that counterfeit products misrepresented as genuine Green Lumber have been identified and may pose health risks. The FDA has detected tadalafil which is not a ingredient in any authentic Green Lumber Product.

Students Perspectives

A Day in the Life of a Pharmacy Student: Our Experience of Dr. Kalam Agricultural College, Kishanganj for Pharmacognosy Field Visit. Anushka, D. Pharm 1st year, 2024-25

As pharmacy students, our pharmacognosy visit was a truly enriching and unforgettable experience that brought classroom learning to life. The day began with eagerness and curiosity as we set out, guided by our teachers, to explore the practical aspects of medicinal plants and crude drugs. The visit included a tour of a well-maintained medicinal plant garden, a crude drug museum and research facilities where we observed a wide variety of plants and natural products. In the garden, we identified plants of great therapeutic value such as Aloe, Rauwolfia, Neem and Tulsi.



We were taught how to recognize them based on their morphological features like leaves, roots, bark and flowers. This practical exposure helped us understand how raw drugs are identified, collected and stored before being processed into formulations. At the crude drug museum, we observed different samples in preserved forms, gaining knowledge of their chemical constituents and medicinal uses.

The visit also emphasized the significance of sustainable harvesting, conservation and the role of pharmacognosy in bridging traditional medicine with modern pharmacy. It gave us an insight into how nature remains the primary source of many important drugs used today. Overall, the pharmacognosy field visit was more than just an academic activity—it was an inspiring journey that deepened our appreciation for natural medicines. It strengthened our knowledge, encouraged curiosity, and motivated us to value the integration of traditional wisdom with scientific research in our future profession as pharmacists.

My Experience of Visiting a Pharmaceutical Industry Safar Ali, D. Pharm 1st year, 2024-25

Recently, I had the opportunity to visit a pharmaceutical industry named **Paschim Banga Pharmaceutical** and it was a very informative and eye-opening experience. As a pharmacy student, I was excited to see how the theories and processes we study in books are actually applied in real manufacturing units. During the visit, we were first briefed about the history of the company and its contribution to healthcare. Then, we were taken to different departments such as raw material storage, production area, quality control (QC) lab, packaging section and research and development (R&D) sections. I was impressed to see the high level of cleanliness, safety measures and strict adherence to Good Manufacturing Practices (GMP) by entire employees of the company.



We were taught how to recognize them based on their morphological features like leaves, roots, bark and flowers. This practical exposure helped us understand how raw drugs are identified, collected and stored before being processed into formulations. At the crude drug museum, we observed different samples in preserved forms, gaining knowledge of their chemical constituents and medicinal uses.

The visit also emphasized the significance of sustainable harvesting, conservation and the role of pharmacognosy in bridging traditional medicine with modern pharmacy. It gave us an insight into how nature remains the primary source of many important drugs used today. Overall, the pharmacognosy field visit was more than just an academic activity—it was an inspiring journey that deepened our appreciation for natural medicines. It strengthened our knowledge, encouraged curiosity, and motivated us to value the integration of traditional wisdom with scientific research in our future profession as pharmacists.

My Experience at Ashray Visit Mehak Naj, D. Pharm 1st year, 2024-25

As a pharmacy student, visiting a shelter home, **ASHROY** in Islampur was a truly eye-opening and enriching experience. Our whole class students along with Dr. Jashabir Sir, Mr. Amrit Sir and Principal Sir & Dean Sir were present with us for this Visit. Two doctors from MGGMC & LSK Hospital also accompanied us to provide a free health checkup for the needy. This visit gave us an opportunity to step outside our regular classroom learning and see healthcare and social work together. **ASHROY** is a place that provides care, support and rehabilitation to people in need. We learn about the systemic process of medical care, social care and emotional care and understand their combined effects on one's life for the improvement in their quality of life.

During our time at **ASHROY**, we interacted with staff members and observed the various services offered, from basic healthcare and counselling to long-term rehabilitation programs. The doctors accompanying us explained different cases and helped us to understand the medical and pharmaceutical points involved in this process. We also dispensed free medicines to the patients as per the doctors' prescriptions, ensuring that everyone received the right treatment



and guidance about its use. This not only deepened our knowledge about patient care but also showed us the importance of teamwork among healthcare professionals. The visit strengthened our sense of empathy, compassion and social responsibility. It gave us a clearer understanding of the challenges faced by underprivileged communities and how pharmacists can contribute to such initiatives. Overall, the experience inspired me to approach my future career with a greater commitment to serving society.

Alumni Spotlight

My Journey at Mata Gujri College of Pharmacy

Mr. Tridevendra Nath, B. Pharm 2021-2025



I'm Tridevendra Nath, from Kishanganj, Bihar. My undergraduate journey began at Mata Gujri College of Pharmacy, a constituent unit of Mata Gujri University. This experience laid a solid foundation for my academic and professional growth. The structured curriculum, dedicated faculty and well-equipped laboratories at MGCOP not only improved my knowledge but also fostered curiosity, discipline and a research mindset. The encouragement and mentorship I received helped me build confidence, clarify my goals and develop a sense of responsibility toward the pharmacy profession. MGCOP provided a lively academic environment and opportunities that shaped my personality and directed me toward higher aspirations.

After finishing my undergraduate studies at MGCOP, I had the privilege of joining **NIPER Mohali**, one of the top institutes in pharmaceutical sciences. Here, I am experiencing a rich research culture, chances for interdisciplinary learning and interactions with talented individuals from across the country. The move from MGCOP to NIPER Mohali has gone smoothly due to the strong foundation I built during my B. Pharm. I will always be grateful to MGCOP and MGU for preparing me to face new challenges with confidence. My journey highlights the value of a strong undergraduate education.



My Journey at Mata Gujri College of Pharmacy Miss. Shreya Pal, B. Pharm 2021-25



My four-year study of B. Pharm at Mata Gujri College of Pharmacy has been a transformative experience, both academically and personally. From learning the fundamentals of pharmaceuticals, pharmacology and medicinal chemistry to conducting practical experiments and community pharmacy projects, every semester deepened my understanding of pharmaceutical science and patient care. The supportive teacher, my mentor, the well-equipped campus and motivating environment inspired me to stay dedicated to my studies and aim high. With their constant guidance and my consistent effort, I was able to secure AIR 155 in the GPAT 2025 exam and AIR 488 in the NIPER JEE 2025 exam, while also finishing among the top three students of my batch. I am grateful to the faculty and the college for shaping my skills and confidence for the next step in my pharmaceutical career.

I'm currently pursuing my MS (Pharm) in Medicinal Chemistry at the **National Institute of Pharmaceutical Education and Research, Guwahati (NIPER-Guwahati)**. The campus has a collaborative vibe, and the well-equipped labs make research exciting and hands-on. Learning from experienced faculty and working with classmates from different backgrounds has a huge impact on my understanding of medicinal chemistry and helped me build strong research skills that I know will be valuable in my pharmaceutical career. I am excited to explore new ideas and opportunities in this field.



From One Milestone to the Next: My Journey at MGCOP Miss. Tannistha Das, B. Pharm 2022-25



I feel honored to share a glimpse of my academic journey at **Mata Gujri College of Pharmacy**. Joined as a B. Pharm (Lateral entry), my 3 years I spent at MGCOP have been shaping my path in this stream, nurturing not only my knowledge but also my confidence. The institute provided me with a strong academic foundation during my B. Pharm with excellent faculty support, advanced facilities, well-equipped laboratories and a digital teaching environment. MGCOP, a family that stands by me with constant support and guidance, for which I could complete my **B. Pharm**. I will always keep all the learnings, memories, love and bonds built in the MGCOP family in my heart. I hope I will make my college proud as I continue to grow in this field.

Now I step into a new chapter as I begin my **M. Pharm at Jadavpur University**, one of the most prestigious institutions in India. The academic atmosphere of the university is very vibrant, which is truly inspiring. I feel fortunate to be welcomed warmly by teachers and seniors, whose encouragement and shared experiences are helping me to adjust smoothly in this new environment. Though I am at the early stage of my journey here, I look forward to gaining deeper knowledge in research and to growing as a professional in this esteemed institution.



মানুষ্যত্বের দীপ
বিশাল সরকার
সহকারী অধ্যাপক

ঝড়ের ভেতরেও মানুষ দাঁড়ায় অটল,
অন্ধকারে খুঁজে ফেরে আলোর সম্বল।
বেঁচে থাকার লড়াই যে নিঃশব্দ গান,
সততার রঙেই সাজে জীবনের প্রাণ।

ঈর্ষা নয়—মন দাও নিজের কাজে,
অন্যের সাফল্য আলো হয়ে বাজে।
যে হৃদয় রাখে স্বচ্ছ, নির্মল,
তার পথেই ফোটে জীবনের কমল।

মানুষ্যত্বই মূল, সেটাই হোক দীপ,
সৎ কর্মেই মেলে আত্মার সঙ্গীত।
ক্লান্ত পথ শেষে শিখাবে এ বাণী,
সততাই বিজয়, মানবতাই প্রাণী।





নারী তুমি অনন্যা

নারী তুমি কোমলকায়ী, বিকশিত মনোময়।
নারী তুমি জৌলসে আজ পরিপূর্ণময়।।
নারীত্ব যার অধিকার, নারীত্ব যার দাবি।
রহস্যময়ী নারী তুমি অসাধারণ এক সৃষ্টি।।

নারী তুমি গর্জে ওঠো প্রতিবাদের ভাষায়।
সুর ওঠে এক বিদ্রোহময়, বীরত্বের ও ভাবনায়।।
দশভূজা নারী তুমি, বীরত্বের প্রতীক।
সেই নারীও মাতৃসম, জননী দিগম্বরী।।

নারী তুমি সংহার করো, উপসংহার ও বটে।
আবার তুমি স্রষ্টা হয়ে সৃষ্টিও করো কালে।।
নৈঃশব্দ্য রাতে সমাজের বুক দাপায় কিছু দানব।
অন্যের লজ্জা কেড়ে নিয়ে, লাঞ্ছিত আজ মানব।।
মুখোশ পরা দস্যুর কাছে তুমি এক পণ্য।
শিকার তুমি তিলোত্তমা, এ এক জঘন্যময় ঘৃণ্য।।

তবুও নারী স্বপ্ন দেখো, নিজের লজ্জার দাবীতে।
সূর্যোদয়ের আলোর ছটা কৃষ্ণকলির মুখেতে।।
নারী তুমি শক্তি ধরো, ছিনিয়ে নাও অধিকার।
জীবন যুদ্ধে দাপিয়ে বেড়ায়, রন রঙ্গিনীর বেশে।।

By- Ms.Puja Saha
Associate Professor
Dept. of Pharmaceutics, MGCOP



B.Pharm 2nd Semester
Name - Pekham Paratder
Roll No - MGCP/BP/24/60

Balancing Motherhood and Career: My Journey



I am **Mrs. Pranita Sunar**, and I come from the serene hills of Sikkim. Life, however, has taken me far from home to Kishanganj, Bihar, where I work as an Assistant Professor at this Institute. Alongside my academic responsibilities, I am also a mother to an eleven-month-old child and a wife, living away from family in Sikkim.

My journey so far has been full of love, challenges, sacrifices and strength. I resumed my job just two months after my maternity leave. It was not an easy decision, returning to work while caring for a 2-month-old baby demanded strength, planning and emotional balance. But I believed it was important to fulfil my professional duties, to support my finances and to support my family. Every day, I balance multiple roles- teaching and academic work at the office, caring for my baby, managing the household, and still trying to find time to play, nurture and be fully present for my child.

There are moments of exhaustion and times when physical distance from husband and family often feels challenging when one must balance motherhood and career at a time. But if there is one person who has made this balance possible, it is my mother. She has been my strongest support system. Without her presence, I cannot imagine managing the sleepless nights, the demands of an infant, and the expectations of my profession. My husband, who works in Sikkim, manages to visit us at least twice a month despite his professional commitments. Sometimes I think it's not just me, but my husband too, who must feel the pain of living without his wife and baby. My heart feels heavier imagining his loneliness. Perhaps, this is what family truly means- being apart at times because of responsibilities yet deeply understanding and feeling each other's emotions.

Being a working mother is never easy, but it is also rewarding. I feel proud that I can contribute to education while raising my child with love and care. My journey may not be perfect, but it is mine- with its struggles, challenges, victories, determination and immense joy. Through this journey, I have realized that a women possess immense strength to balance professional and personal lives.

I share my story not only as a reflection of my own experience, but also as a message of encouragement to other working mothers. Our contributions- whether at home or workplace- are significant. While the balance may not always be perfect, the journey itself is a testament to our strength and commitment.

The Everyday Importance of Pharmacovigilance

We regularly accept that, when we swallow a pill, apply a cream, or receive a vaccine there is no harm. It was studied, tested and prescribed by health professional. After all but the truth that many do not realize is that being on a shelf does not end the lifecycle of medicine. Medicines are also studied, monitored, and tracked for usage long after it is publically available. This continuous 'watchfulness' is called pharmacovigilance which is an essential component of safety.

In short, pharmacovigilance is monitoring the safety of medicine and the risk of a drug versus its benefits. Clinical trials are an important tool, but do not always explain every side effect or cause for concern. Rare or long-term side effects may not be seen until a drug has been used extensively and over time by millions of individuals in a general setting. We could think of pharmacovigilance as a safety net for medications identifying risks or issues that patients or physicians may not identify initially.

Pharmacists are often the first point of contact for pharmacovigilance. I recall a story about an elderly patient who was initiated on a new blood pressure medication and shortly after she started feeling dizzy and confused. This is caused due to medication was modified.

Pharmacovigilance may sound like complicated, technical term, but at its heart it's about care, vigilance, and trust. The next time you pick up a prescription, your mind need to remember that your pharmacist isn't just giving a box of pill - they are part of a global safety.

By,

Afshan Hossain

B. Pharm 2nd Semester

MGCP/BP/24/007

A Digital Revolution in the Hunt for New Drugs



For years, the search for new medicines was a laborious trial-and-error process, which could take over a decade and cost billions of dollars. Now, due to Computer-Aided Drug Design (CADD), scientists are developing more intelligent, efficient methods of producing life-saving medications.



CADD applies advanced computer models to analyse the way diseases function at the molecular level and forecast which drug molecules are likely to work. Rather than testing blindly thousands of compounds in laboratories, researchers can now model the way a drug will interact with its target — like trying the correct key for a lock — before it's even synthesized.



The technology has already contributed to the development of cancer, viral infection, and genetic disorder treatments. Computer-aided approaches assisted researchers during the COVID-19 pandemic in finding potential antiviral drug candidates at record speed.



The future of medicine, experts say, is in this union of biology and artificial intelligence. "CADD enables us to design drugs with precision and speed unimaginable 20 years ago," said Dr. Rina Mehta, a researcher in pharmacology.

Although challenges persist — among them, the requirement for a lot of clinical testing and real-world confirmation — CADD is revolutionizing how science is addressing disease. What was once science fiction is now becoming common science, holding out the promise of quicker cures and improved medicines.

By Sukanta Debnath

Assistant Professor

অপেক্ষাকৃত কথা

কবি নহয় মই, কবিও লিখিবলৈ
স্বামো এটি চেষ্টা,
নিজকে প্রকাশ কৰিবলৈ বহি
স্বাজে স্বাজে ভাষো!
এই অন্তহীন নীলাঙৰ
উলটো মই ক'ও আছো....
সুন্দৰ স্বদেশে কোঠিমাৰা
সেইটোকে ধন-ধন্যানে
ভাৰ হয় মেন-
এয়াই নেকি শেষ নিশ্বাস?
স্বস্তিকৰ বাবে মই
চকু মদি লক্ষ্য কৰো-
এই ধৰাৰ আনীত্বাৰ
সহি মেন ধেমালি....
কৌৰব জ্বলন্ত অগ্নি!!

সাবিত্ৰী প্ৰধান

Starting a New Journey with Indian Cricket Team

*by Tanmay Mohanta
Assistant Professor
Mata Gujri College of Pharmacy*



In a landmark announcement, **Apollo Tyres** has been named as the Lead Sponsor of the Indian Cricket Team under a prestigious 3-year strategic partnership with the Board of Control for Cricket in India (BCCI).

Cricket isn't just a sport in India -- it's the nation's heartbeat. It unites every city, street and home. As Team India takes the field, brand Apollo Tyres will stand with them -- on their jerseys, in their triumphs, and in the dreams they ignite. As millions watch the Indian team, brand Apollo Tyres will also Go the Distance with them -- celebrating every six, every wicket and every roar in the stadium.

This agreement grants Apollo Tyres the Title Sponsor Rights for all international and home matches (both men's and women's teams) and domestic cricket tournaments organized by the BCCI. As part of this landmark collaboration, the Apollo Tyres logo will be prominently featured on the front and leading arm of the official Team India jersey, symbolizing a powerful alliance between one of the world's most beloved sports and a brand ready to go the distance for the national pride.

Acknowledgement

We would like to express our gratitude to everyone who contributed to this newsletter on behalf of Mata Gujri College of Pharmacy. Your arts, poems, publications, and writings have made you the true inspiration for the *Vesaja Sreptum* newsletter.



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