

Date/Day: March 03, 2025 / Monday

Title: National Level Online Hackathon -2025

Objective:

- The Hackathon 2025 aimed to foster creativity, innovation, and teamwork among students across the nation.
- The purpose of this event was to provide a platform for budding technocrats and pharmacy professionals to ideate and develop technology-based solutions for real-world problems in healthcare and related fields

Program Outcome: PO1, PO2, PO3, PO5, PO6, PO8, PO9, PSO1, PSO2

Details of the Resource Person/Event:

Dr. Mandar Kodgule (Chairman & CEO at IQGEN-X Pharma Pvt Ltd) and Faculty from Maharashtra Educational Society's H.K. College of Pharmacy. Event was organized by Research & Innovation Cell of H.K. College of Pharmacy.

Participants Details:

Total no. of college students: 62

Total no of Faculty: 11

Summary of the Lecture/Activity:

Dr. Mandar Kodgule (CEO at IQGENX Pharma Pvt. Ltd.) provided the problem statements for Undergraduate and Post Graduate Students which are given below:

Undergraduate Hackathon: Problem Statement

- ☐ Availability of quality medicines at affordable price is the biggest concern. Innovative R&D, manufacturing and compliance approaches are required to reduce the cost of medicines and improve the quality. Efficient distribution system is required to cut the transportation, insurance, working capital, stocking and expiry costs. What are some of the best practices Pharma companies can acquire to address these issues?

Postgraduate Hackathon: Problem Statement

- ☐ Biologicals like proteins, oligo-nucleotides, monoclonal antibodies (MABs), enzymes and large molecules are emerging as better therapeutic agents for treatment of critical diseases such as COVID and other newer viral diseases, diabetes, cancer, etc. Most of these are available in injectable dosage for requiring rigorous storage conditions making it very difficult to make it available as well as affordable. As oral route is the most preferred route for medicines, what are the different approaches one can use to make oral delivery of these biologicals very efficient and cost effective?

These problem statements were provided to the registered teams one week before the event on the 3rd March 2025.

Post Graduate Teams Details :4

	Team Leader	Member 2	Member 3	Member 4	College	Location
Team 1	Janhvi Shetty	Isha Kavedia	Rani Katekar	Maheen Mulla	H. K. College of Pharmacy	Jogeshwari (East), Mumbai 400102
Team 2	Suraj Kumbhar	Mahhak Khan	Yasir Hasan	Renuga Devi	H. K. College of Pharmacy	Jogeshwari (East), Mumbai 400102
Team 3	Rizwan Pathan	Afzal Shaikh	Neha Rai	Yogendra Salunke	H.K. College of Pharmacy	Jogeshwari (East), Mumbai 400102
Team 4	Sumit Roy	Payaam Vohra	Sanjeevan Gupta		National Institute of Pharmaceutical Education (NIPER)	Mohali, Punjab-160062

Under Graduate Teams Details: 14

Sr. No.	Year	Name of Team Leader	Name of Member 1	Name of Member 2	Name of Member 3	Name of college	Location of college - District & city
1	Third Year Bachelor of Pharmacy	Harshali Shinde	Shubham Dhir	Monal Paikrao	Omkar jondhale	Ideal College of Pharmacy and Research, Kalyan East	Thane distinct, Kalyan
2	Fourth Year Bachelor of Pharmacy	Patil Pratik Prakash	Chinmay Nalawade	Isha lahange	Deepesh Patil	PSPS Indira Institute of Pharmacy	Devrukh, Ratnagiri, Maharashtra
3	Third Year Bachelor of Pharmacy	Unnatee Jalindar Kshirsagar	R.K. Shanmathi			Bombay college of pharmacy	Kalina, Mumbai,
4	Second Year Bachelor of Pharmacy	Shaikh Mohd Kaif Abdul Rasool	Umair Nasir Hussain Sayyed	Mohd. Inayat Karim Qureshi	Mohd Amjad Karrar Hussain Khan	H K College of Pharmacy	Mumbai, Maharashtra

5	Second Year Bachelor of Pharmacy	Uzma Khan	Poonam Rakeshkumar maurya	Minal milind kulkarni	Khushi patel	HK College of pharmacy	Mumbai
6	First Year Bachelor of Pharmacy	Prem Agrawal	Saurabh Maurya	Prem Agrawal	Rishabh gupta	HK College of pharmacy	Oshiwara, jogeshwari (W)
7	Third Year Bachelor of Pharmacy	Aalia Abdul Gafoor Noori				Dnyandee p College Of Pharmacy	Khed ,Ratnagiri
8	Third Year Bachelor of Pharmacy	Sneha Kalpesh Limbani	Vaibhav Sanjay Mahadik	Khushi Shubhash Khadtar	Prachi Mahendra Chavan	Dnyandee p College of Pharmacy	Khed, Ratnagiri
9	Second Year Bachelor of Pharmacy	Shreyans Sancheti	Srushti Kale	Rasika Dinde	Rajesh Mahajan	Mahatma Gandhi Vidyamandir's Pharmacy College Nashik	NASHIK
10	Third Year Bachelor of Pharmacy	Mujahid Ansari	Vaidehi Ghadi	Dr. Harish Kundaikar		DY Patil University School of Pharmacy	Nerul, Navi Mumbai 400706
11	First Year Bachelor of Pharmacy	Rushdah Ansari	Ananya Kumari	Aisha Zuber Laloo		HK College of Pharmacy	Mumbai
12	Second Year Bachelor of Pharmacy	Akanksha	Humna			Hk college of Pharmacy	Jogeshwari Mumbai
13	Fourth Year Bachelor of Pharmacy	Nidhi Mishra	Fulaware Sakshi	Pratham Shah	Priyanka Singh	MET Institute of Pharmacy (Degree)	Bandra, Mumbai
14	Fourth Year	Anurag S. Kankariya	Aarya G. Gujrani	Sanskriti A. Deore	Sumit M. Munot	SNJB's SSDJ	Chandwad, Nashik

	Bachelor of Pharmacy					College Of Pharmacy , Chandwa d.	
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The Hackathon featured participation from various pharmacy and technical institutes across Maharashtra. Teams were divided into UG (Undergraduate) and PG (Postgraduate) categories and were tasked with designing innovative, sustainable solutions within a time-bound format.

Participants showcased remarkable critical thinking and technical skills while solving domain-specific challenges. The event was conducted in an online mode, ensuring seamless participation from students across different regions.

Winners of Hackathon 2025: UG Category

1st Prize:

Unnatee Jalindar Kshirsagar & R.K. Shanmathi

Institute: Bombay College Of Pharmacy, Kalina, Santacruz, Mumbai

2nd Prize (Runner-Up):

Nidhi Mishra, Fulaware Sakshi, Pratham Shah, Priyanka Singh

Institute: MET Institute Of Pharmacy, Bandra, Mumbai

Winners of Hackathon 2025: UG Category

1st Prize:

Suraj Kumbhar, Mahhak Khan, Yasir Hasan, Renuga Devi

Institute: H. K. College Of Pharmacy, Jogeshwari, Mumbai

2nd Prize (Runner-Up):

Sumit Roy, Payaam Vohra, Sanjeevan Gupta

Institute: Niper Mohali, Punjab, India

Brochure/Photo Gallery:



Maharashtra Educational Society's
H.K. College Of Pharmacy
 Approved by P.C.I, D.T.E, Govt. of Maharashtra & Affiliated to University of Mumbai,
 Accredited by NAAC 'A' Grade

IQGenX

H.K. College of Pharmacy & IQ GenX present
HACKATHON 2025

Think. Innovate. Solve.

Are you ready to tackle real-world pharma challenges?
 Put your creativity to the test and compete with the best!

Problem statements will be different for
 UG & PG participants
 You will receive the problem statement via email
 ONE WEEK before the competition.

REGISTER NOW!
 Registration fees- Rs 200 per team

Eligibility Criteria
 Open to both B.Pharm and M.Pharm students.

Win Exciting Cash Prizes

EVENT DETAILS
 Date: 3rd March 2025
 Deadline for Registration : 25th February 2025
 Mode: ONLINE – Participate from Anywhere!
 Team Size: Max 4 Members
 Problems statements will be pharma industry based

PRESENTATION RULES
 PowerPoint Presentation (PPT) – Max 15 Slides
 Time Limit: 15 minutes per team
 Think smart, present crisp, and impress the judges!

WHY PARTICIPATE?
 Win Exciting Prizes & Recognition!
 Showcase Your Pharma Knowledge & Problem-Solving Skills
 Get a E-Certificate of Participation & Achievement
 Network with Experts & Like-Minded Innovators

Dr. Tushar Lokhande
 Principal

Dr. M.N. Saraf
 Dr. Roja Rani Budha
 Faculty Incharge

Dr. Archana Upadhyia
 Mrs Rachel Britto

Mr. Aniket Tiwari
 Student Council General Secretary
 (Contact no-8291893127)

Ms. Anushka Shelar
 Student Council Research & Innovation committee Head
 (Contact no-9326042964)


Vision: To be recognized as an institution providing quality education in pharmacy to serve the healthcare sector.

Nidhi Mishra (Presenting)

Distribution & Logistics

Augmented Reality in Warehouses

- Precision in Order Selection - automatically locating boxes and barcode scanning - integrates with blockchain
- Lesser human error especially in LASA drugs
- Compliance with Handling Protocols
- Faster operations, Audit Trails & Traceability
- Example** - Pfizer - vaccine distribution centers - Workers using AR glasses achieved 99.99% order accuracy and reduced training time by 50%.



Internet of Things in Warehouses

- Sensors - remote environmental monitoring - crucial for cold storage
- Inventory management - regulating stock inside warehouse - Integrates with blockchain it





4:01 PM | fug-gdnh-yoj

16:01 03-03-2025

Shanmathi R K (Presenting)

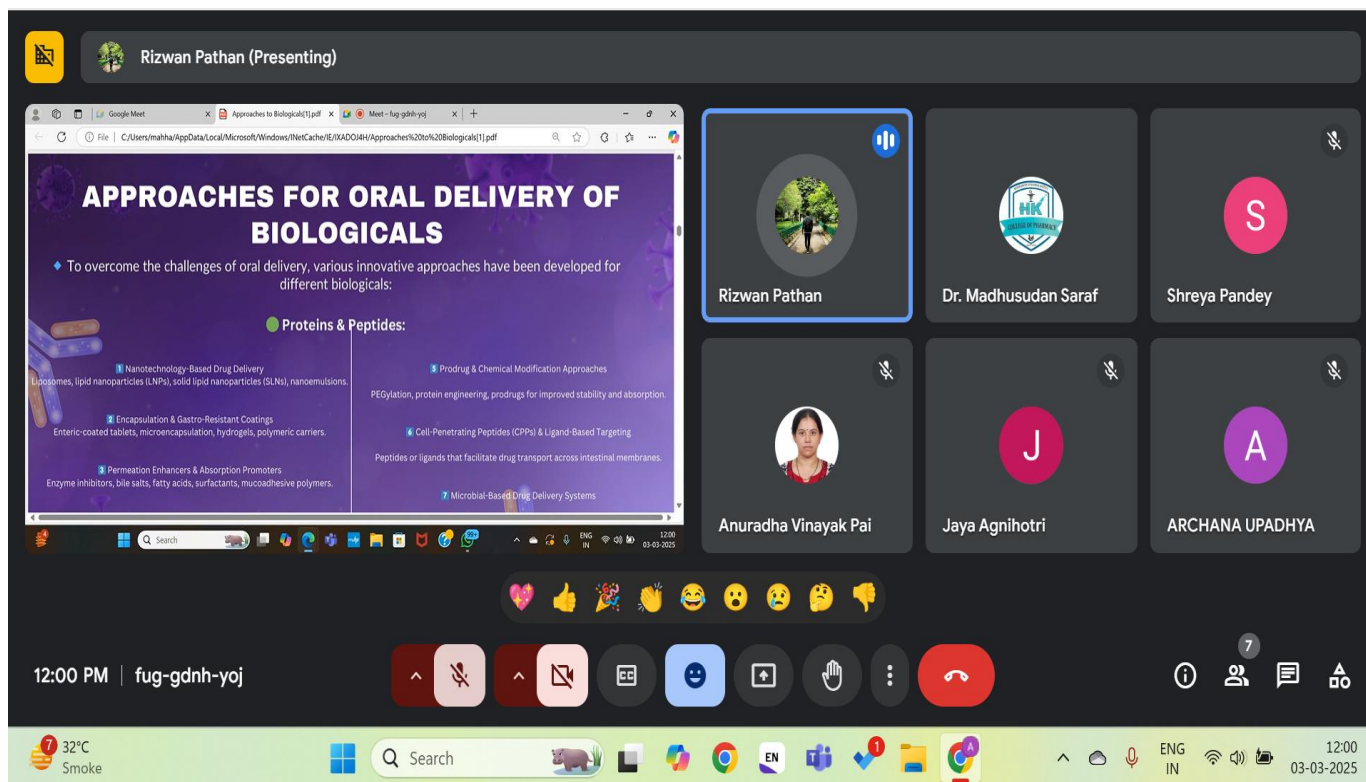
Innovative Strategies for Cost-Effective and High-Quality Drug Development.

Unnatee Kshirsagar
 R.K. Shanmathi
 Bombay College of Pharmacy

3:01 PM | fug-gdnh-yoj

15:01 03-03-2025



Key Outcome of the Lecture/Activity:

Encouraged cross-disciplinary collaboration between Pharmacy College students and Industry

- Helped students apply theoretical knowledge to practical challenges.
- Provided mentorship and real-time feedback from experienced professionals including industry personnel.
- Enhanced communication, leadership, and problem-solving skills.
- Sparked interest in innovation and entrepreneurship among participants

Link for social media:

LinkedIn:	https://www.linkedin.com/posts/h-k-college-of-pharmacy-mumbai-303524222_glimpses-of-national-online-hackathon-2025-activity-7319409402057269248-Fq-b?utm_source=share&utm_medium=member_desktop&rcm=ACoAADf2WrMBUFgAeZVznddoMfc3VtpDnyqdS4Y
Facebook:	https://www.facebook.com/photo/?fbid=1134893595316948&set=a.470185965121051
Instagram	https://www.instagram.com/p/DIotmJeo_c9/?utm_source=ig_web_copy_link&igsh=MzRIODBiNWFIZA==



MAHARASHTRA EDUCATIONAL SOCIETY'S
H. K. COLLEGE OF PHARMACY
PRATIKSHA NAGAR OSHIWARA, JOGESHWARI (W), MUMBAI 400102
NAAC Accredited Grade 'A'



**Committee Incharge/
Event Coordinator/s**
Dr. Archana Upadhyaya

Dr. Anagha Raut

IQAC Coordinator



Dr. Tushar Lokhande

Principal