Date/Day: 21 July 2026/Tuesday

Title of Event: "Capsule Manufacturing New Applications and Technologies in Hard Capsules"

Organized by: Pharmaceutics Department and IIC. The event was coordinated by Faculty Dr. Jaya Agnihotri and Ms. Saba Khan.

Objective:

- **To understand** the principles and manufacturing process of hard capsules.
- **To gain insights** into industrial practices, quality assurance, and regulatory requirements.
- **To learn** about innovative applications of hard capsules in modern pharmaceutical drug delivery.
- **To bridge** the gap between academic learning and pharmaceutical industry expectations through expert guidance.

Program Outcome: PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO11

Details of the Resource Person/Event: Dr. Parizad Elchidana , Ms. Dorene Almeida , Mr. Prashant Pisal Mr. Suraj Mohole, Mr. Abhay Joshi , Mr. Ibad Bhure , Ms. Purbasha Banerjee, Mr. Shashikant Joag

Participants Details:

Total no. of college students (B.Pharm): 70

Total No. of Faculty:02

Summary of the Lecture/Activity:

The seminar, "Insights into ACG's Oral Dosage Technology," was held on 21st July 2026 at MES H. K. College of Pharmacy, Mumbai. Organized by the Department of Pharmaceutics and IIC in collaboration with ACG, the day-long industrial training program was attended by Third-Year B.Pharm students. ACG experts led session-wise discussions that explained oral solid dosage manufacturing in a clear and practical manner.

The initial sessions covered the two main capsule shell materials: gelatin, derived from collagen, and vegetarian HPMC. Their properties, applications, and moisture requirements were compared, followed by an overview of empty hard capsule manufacturing, testing, packaging, and common quality defects.

A key focus of the seminar was emerging capsule technologies. The sessions highlighted how capsules have evolved into versatile delivery systems that can improve absorption through liquid fills, combine pellets and mini-tablets for enhanced therapy, deliver powders to the lungs, and support capsule-in-tablet formats. Concepts such as BCS classification and liquid-fill formulation were explained using practical examples.

Later sessions broadened the discussion to include tablet and capsule machinery, packaging films and foils, and anti-counterfeiting systems that help protect medicines. The program also introduced the Industrial Internet of Things, showing how connected machines can be monitored efficiently. The seminar concluded with GMP, hygiene, and gowning practices, reinforcing that quality begins with discipline and proper procedure.

Overall, the seminar offered an engaging and valuable learning experience that effectively linked classroom concepts with real-world industrial practice.

Key Outcomes from the Activity:

1. **Technical Understanding:** Developed a clearer understanding of hard capsule manufacturing processes, technologies, and industrial applications.
2. **Drug Delivery Innovation:** Gained insight into new and advanced applications of hard capsules in modern pharmaceutical drug delivery.
3. **Industry and Quality Awareness:** Improved awareness of pharmaceutical industry practices, quality standards, and regulatory expectations.
4. **Practical Industry Exposure:** Learned practical concepts and real-world perspectives from experienced ACG professionals.
5. **Career Readiness:** Strengthened students' technical knowledge and preparedness for future roles in the pharmacy profession.

Social Media Links

LinkedIn	https://www.linkedin.com/posts/h-k-college-of-pharmacy-mumbai-303524222_the-department-of-pharmaceutics-and-the-institution-activity-7495392889875677185-QZtL?utm_source=share&utm_medium=member_desktop&rcm=ACoAADf2WrMBUFgAeZVznddoMfc3VtpDnyqdS4Y
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Dr. Archana Upadhya

Dr. Tushar Lokhande

Dr. Jaya Agnihotri

Ms Saba Khan

Committee Incharge/ Event Coordinator/s

IQAC Coordinator

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