



Date/Day: 07-03-2026/Saturday

Title: Industrial visit to Associated Capsules Ltd., Dahanu Plant, Dist. Palghar

Objective:

- The main objective of this industrial visit was to gain a comprehensive understanding of the process involved in manufacturing capsule shells.
- Additionally, the visit aimed to provide insight into the evaluation of capsules through quality control procedures.

Program Outcomes: PO1, PO4, PO7, PO9, PO10

Details of the Resource Person: Dr. Sushruta Mulay, Faculty MES H.K. College of Pharmacy accompanied the Second Year B.Pharm students to the industrial unit.

Participants Details:

Total no. of college students: 28

Total no of Faculty: 1

Summary of the Activity:

The industrial visit began with a brief presentation introducing the plant. During this session, participants were informed about essential safety procedures, the various sections within the production facility, and the regulatory aspects governing the operations.

Quality Control Department

The Quality Control department was organized into three main areas: the instrumentation room, the wet lab, and the microbiology testing section. Instrumental analyses were carried out using advanced equipment such as RP HPLC, GC, UHPLC, ICP, and LC-MS. Several quality control tests were explained, including moisture content assessment, Bloom strength measurement of capsules, and solution viscosity testing. In the microbiology lab, the process for microbiological testing of gelatin was described, specifically for the detection of five organisms.

Production Department

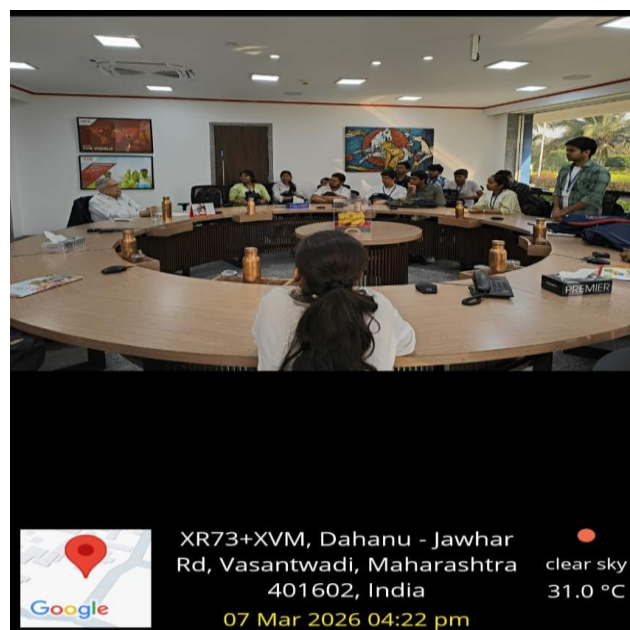
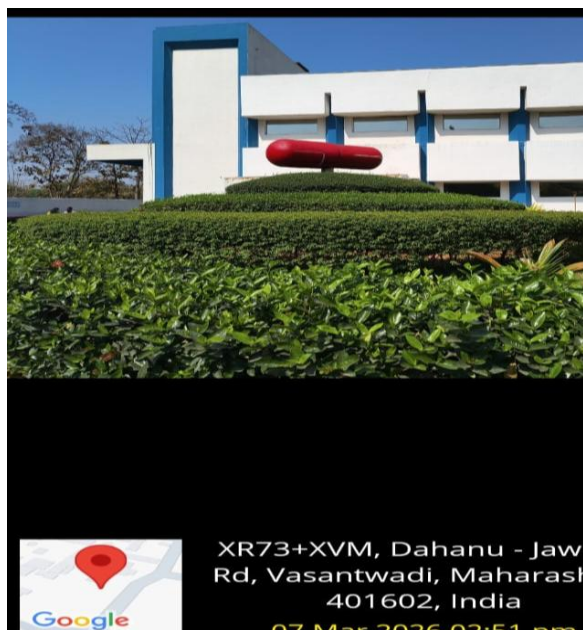
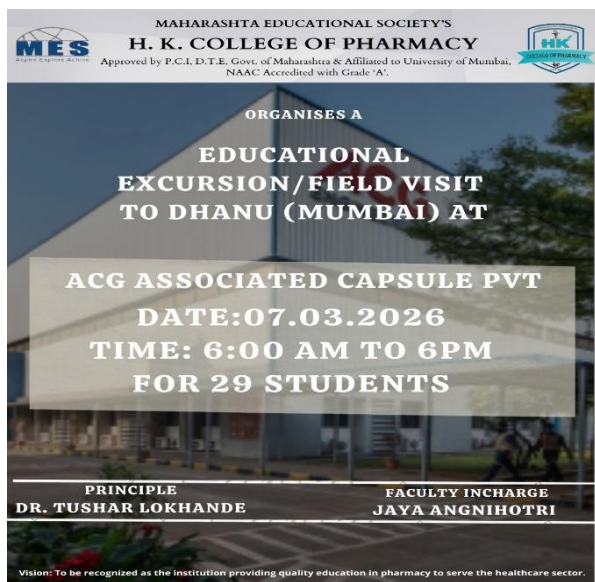
The production department demonstrated the preparation of the gelatin solution and the addition of colorants. Participants observed fully automated machinery used for manufacturing capsule shells, including pin dipping, rotating, and cutting processes. The use of camera inspection systems for identifying defective capsules was also highlighted.

Automation in Packaging

Robotics were employed in the creation of cartons, packing, and barcoding. Automated systems within the production unit facilitated the transfer of stainless-steel containers using non-touch techniques.

The packing of capsules was also carried out by automated machinery, ensuring efficiency and precision.

Brochure/Photo Gallery:



Key Outcome of the Activity:

- Through this industrial visit, students gained firsthand experience in several crucial areas of capsule manufacturing. They observed the selection of raw materials and learned how proper material handling is essential in the production process.

- The visit offered insight into the operational workflow of automated machines used for manufacturing capsule shells, allowing students to connect their classroom knowledge with real-world industrial practices.
- Additionally, students deepened their understanding of key quality control tests, which are vital to ensuring the integrity and safety of the final product.
- By directly engaging with these processes, students were able to bridge the gap between theoretical concepts related to capsule production and the practical considerations encountered in an industrial setting.

Link for social media:

LinkedIn	https://www.linkedin.com/posts/h-k-college-of-pharmacy-mumbai-303524222_on-march-7-2026-second-year-b-pharmacy-activity-7442430075918118913-qjf4?utm_source=share&utm_medium=member_desktop&rcm=ACoAADf2WrMBUFgAeZVznddoMfc3VtpDnyqdS4Y
Facebook:	https://www.facebook.com/photo/?fbid=1417348947071410&set=a.470185965121051
Instagram	https://www.instagram.com/p/DWS1G4LiCBR/?utm_source=ig_web_copy_link&igsh=MzRIODBiNWF1ZA==

Event Coordinator/s

Dr. Sushruta Mulay

Dr. Jaya Agnihotri

S. Mulay
J. Agnihotri

U. Upadhyaya

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Dr. Archana Upadhyaya

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