



"Dissemination of Education for Knowledge, Science and Culture."
- Shikshanmaharshi Dr. Bapuji Salunkhe



SHRI SWAMI VIVEKANAND SHIKSHAN SANSTHA'S

VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

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Tal. Karveer, Dist. Kolhapur - 416 003.
Affiliated to Shivaji University, Kolhapur (M.S.)

NAAC Reaccredited : "A" (CGPA - 3.24 in 3rd Cycle)
College with Potential Excellence by U.G.C., New Delhi
"Star College" by D.B.T. Govt. of India
ISO 9001 : 2015

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ONE PAGE REPORT

- Name of the Department:** Department of Chemistry
- Name of the Activity:** Industrial Visit
- Date and Duration:** Tuesday, 28/01/2025, Duration 1 day
- Aims and Objectives**
 - To provide students with practical exposure to the sugar manufacturing process.
 - To familiarization with Machinery and Equipment.
 - To gain insights into quality control techniques and safety protocols followed in the industry.
 - To understand environmental and Waste Management Practices.
 - Understanding the Role of Chemistry in Sugar Processing.
 - To identify Career and Research Opportunities.
- No of Beneficiaries:**

	Male	Female	Total
Participation	11	27	38
Faculty	05	01	06
Total	16	28	44

- Expenditure and funding agency: Self-Funding**
- Brief Description:**

The Department of Chemistry, Vivekanand College, Kolhapur, organized an industrial visit to Chatrapati Rajaram Sahakari Sakhari Sugar mill and distillery division, Kasba Bavada, Kolhapur for the students to provide practical exposure to sugar manufacturing processes. The visit aimed to bridge the gap between theoretical knowledge and real-world industrial applications.

During the visit, students observed various stages of sugar production, including sugarcane crushing, juice extraction, clarification, evaporation, crystallization, and packaging. Students also visit the distillery unit of the sugar mill and learn about the **fermentation and distillation process** in ethanol production. They also gained insights into the role of chemistry in sugar processing, quality control measures, and waste management techniques. Additionally, the visit highlighted the utilization of by-products such as bagasse, molasses, and press mud in different industries.

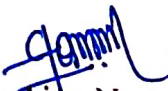
Experts at the factory explained the importance of pH control, chemical treatment, and energy management in ensuring efficient sugar production. The visit provided valuable learning experiences, enhancing students' understanding of industrial chemistry and its applications in the sugar industry.


This educational trip helped students develop a practical perspective on chemical processes, safety standards, and career opportunities in the sugar and allied industries.

8. Outcome:

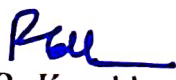
- This visit bridged the gap between theoretical learning and industrial practices in students.
- Students gained hands-on exposure to chemical and mechanical processes and quality testing methods used to ensure the purity of sugar in sugar manufacturing.
- Students also learn about the fermentation and distillation process in ethanol production.
- Students study the environmental impact and waste management techniques, including effluent treatment and air pollution control measures.
- They observed safety protocols, worker protection measures, and risk management in the factory.
- This visit was helpful for students to understand the various career opportunities in sugar manufacturing, process engineering, quality assurance, and environmental management and also learn about job roles and required skill sets for working in the industry.

9. Photographs: Photos have been attached with the report


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Department of chemistry, Vivekanand College, Kolhapur B.Sc. III year students visited to Chatrapati Rajaram Sahakari Sugar Mill



Department of chemistry, Vivekanand College, Kolhapur B.Sc. III year students visited to distillery unit of Chatrapati Rajaram Sahakari Sugar Mill



The experts of the sugar mill explain the manufacturing process to the students in during industrial visit at sugar mill



Departmental students carefully understand and write the note during the visit at distillery unit of the sugar mill