



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय

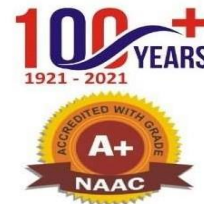
नवाबगंज, कानपुर - 208002, उ.प्र., भारत

HARCOURT BUTLER TECHNICAL UNIVERSITY

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### Report on Expert Talk by Dr. Janhavi Raut Date: 23/08/2025

The Department of Oil Technology, Harcourt Butler Technical University (HBTU), Kanpur, organized an expert lecture titled "**Soap: A Continuing Sustainable Journey**" on **23 August 2025** for B.Tech. students, faculty members, and research scholars. The expert talk was delivered by **Dr. Janhavi Raut, Principal Research Scientist, Unilever, Bengaluru**, who shared her valuable expertise and industrial experience in the areas of soap technology, formulation science, sustainability, and product innovation. The objective of the lecture was to provide students with insights into the evolution of soap manufacturing, recent technological advancements, and the role of sustainable practices in the personal care industry. Dr. Raut explained the fundamental principles of soap chemistry, including the role of oils, fats, fatty acids, and alkalis in soap production. She highlighted the importance of raw material selection, formulation development, processing techniques, and quality evaluation in the manufacturing of high-performance soap products. During the session, Dr. Raut discussed the journey of soap from traditional products to modern sustainable formulations. She emphasized the importance of renewable raw materials, green chemistry approaches, responsible sourcing, and environmentally friendly manufacturing processes. The speaker explained how the personal care industry is adopting innovative technologies to reduce environmental impact, improve product performance, and meet changing consumer expectations. The lecture was highly relevant for B.Tech. Oil Technology students as it connected their academic knowledge of oils, fats, fatty acids, saponification, surfactants, and oleochemicals with real industrial applications. Dr. Raut elaborated on the importance of research and development in improving soap formulations, enhancing skin compatibility, optimizing performance, and developing sustainable alternatives. She also discussed the significance of analytical techniques, quality control parameters, and regulatory requirements in the personal care sector. Dr. Raut shared valuable insights into industrial research and product development practices at Unilever. She encouraged students to develop strong technical fundamentals, innovation skills, and interdisciplinary knowledge to pursue successful careers in the oils, fats, oleochemicals, and FMCG industries. She also highlighted emerging opportunities in sustainable product development and green technologies. An interactive question-and-answer



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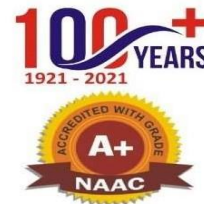
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session was conducted after the lecture, where students actively participated and discussed various topics related to soap formulation, sustainable ingredients, industrial challenges, research opportunities, and career prospects. The session provided students with a deeper understanding of the connection between academic concepts and industrial practices. The expert talk was highly informative and inspiring for all participants. It enhanced students' knowledge of soap technology, sustainable manufacturing practices, and the importance of innovation in the personal care industry. The Department of Oil Technology expresses its sincere gratitude to **Dr. Janhavi Raut** for delivering an insightful lecture and providing valuable guidance to B.Tech. students.