



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय
नवाबगंज, कानपुर - 208002, उ.प्र., भारत
HARCOURT BUTLER TECHNICAL UNIVERSITY
NAWABGANJ, KANPUR - 208002, U.P., INDIA
(Formerly Harcourt Butler Technological Institute, Kanpur)

Phone : +91-0512-2534001-5, 2533812, website : <http://www.hbtu.ac.in>, Email : vc@hbtu.ac.in

100+
YEARS
1921 - 2021



Criteria 3.3.3 Number of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the 2023-2024

Sample proof of Oil Technology Department

Training Program

On

Cosmetic Products formulation

Organized during 03-07 June, 2024

Venue: Department of Oil Technology

The training program on Cosmetic Products Formulation, organized during 03-07 June, 2024 by the Department of Oil Technology at Harcourt Butler Technical University, Kanpur, in collaboration with the Oil Technologists Association of India (Central Zone), was a significant initiative aimed at empowering women from socially disadvantaged rural backgrounds. The program provided participants with a comprehensive understanding of cosmetic science, including the basic chemical and physical properties of ingredients, practical formulation skills, and the product development process. Through hands-on training, participants learned to formulate a variety of cosmetic products, from cold creams to herbal shampoos, while also gaining insights into regulatory and safety considerations. The program emphasized self-reliance and entrepreneurial potential, equipping participants with the knowledge and confidence to explore opportunities in the cosmetics industry. The training was a resounding success, leaving participants well-prepared to independently formulate products and pursue entrepreneurial ventures in the field.

Objectives of the Training Program

Primary Objective: The primary objective of the training program was to empower women from socially disadvantaged rural backgrounds by providing them with practical knowledge and skills in cosmetic product formulation, enabling them to achieve self-reliance and explore entrepreneurial opportunities.

Specific Objectives:

- 1. Foundation in Cosmetic Science:**



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- Introduce participants to the fundamental scientific principles underlying cosmetic product formulation.
 - Ensure participants understand the basic chemical and physical properties of common ingredients used in cosmetics.
- 2. Practical Formulation Skills:**
- Provide hands-on training in the formulation of various cosmetic products.
 - Enable participants to follow standard formulation protocols and use appropriate tools and equipment.
- 3. Understanding Ingredients and Their Functions:**
- Educate participants about different categories of cosmetic ingredients (emollients, surfactants, preservatives, etc.) and their functions.
 - Highlight the benefits and drawbacks of natural versus synthetic ingredients.
- 4. Product Development Process:**
- Guide participants through the complete product development cycle, from concept to final product.
 - Emphasize the importance of quality control and testing in product development.
- 5. Regulatory and Safety Considerations:**
- Inform participants about the regulatory framework governing cosmetic products.
 - Teach best practices for ensuring product safety and compliance with relevant standards.
- 6. Empowerment and Self-Reliance:**
- Equip participants with the knowledge and skills to potentially generate income through cosmetic product formulation.
 - Promote self-confidence and empowerment by showcasing successful case studies and providing mentorship opportunities.

Inaugural Session



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The inaugural session of the training program took place on June 3, 2024, in the Conference Hall of the Guest House. The session commenced with the traditional lightening of the lamp and Saraswati Vandana at 10:00 am. Prof. P. K. S. Yadav, Head of the Department of Oil Technology, delivered the welcome address and provided an overview of the department. Mr. Gaurav Singh then introduced the training program and highlighted its significance. A few words of encouragement were shared by Madam Poonam Awasthy, followed by a message of blessings for the program's success by the Hon'ble Vice Chancellor. The session concluded with a vote of thanks by Dr. Vineeta Gautam.

Program Schedule

The training program was conducted in the PG Lab of the Department of Oil Technology. Each day was structured to provide a balance between theoretical knowledge and practical application. The detailed schedule was as follows:

- **June 3, 2024:** Fundamentals and formulation of Cold Cream and Vanishing Cream, conducted by Mr. Sanjay Kumar Singh.
- **June 4, 2024:** Fundamentals and formulation of Transparent Soap and Herbal Shampoo, conducted by Dr. Vineeta Gautam.
- **June 5, 2024:** Fundamentals and formulation of Hand Wash and Body Lotion, conducted by Dr. Neeraj Praphulla Awasthi.
- **June 6, 2024:** Fundamentals and formulation of Herbal Gel/Herbal Extract and Face Wash, conducted by Mr. Sameer Singh.
- **June 7, 2024:** Fundamentals and formulation of Medicated Soap and Hair Oil, along with the Valedictory Session, conducted by Mr. Gaurav Singh.

Each day began with a foundational lecture on the specific cosmetic products to be formulated, followed by a tea break. Practical sessions were held before and after lunch, focusing on the formulation of the products discussed in the morning.

Outcomes of the Training Program

By the end of the training program, participants had:

- Acquired a thorough understanding of the cosmetic product formulation process.
- Gained the capability to independently formulate a range of cosmetic products.



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- Developed a clear understanding of the regulatory requirements and safety considerations for cosmetic products.
- Felt inspired and prepared to explore entrepreneurial opportunities within the cosmetics industry.

Conclusion

The training program on Cosmetic Products Formulation achieved its objectives of empowering women from socially disadvantaged rural backgrounds. Participants left the program equipped with valuable skills and knowledge, ready to embark on entrepreneurial ventures in the cosmetics industry. The Department of Oil Technology at HBTU Kanpur, along with the Oil Technologists Association of India (Central Zone), played a pivotal role in organizing and delivering this successful training program.





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Interaction with BIS New Delhi

By

Mr. Virendra Singh, Scientist E, BIS New Delhi

Venue: Department of Oil Technology

Date: May 11, 2024

Time: 1:30 PM to 5:00 PM

Venue: Committee Hall, Harcourt Butler Technical University, Kanpur

Mode: Hybrid

Chairperson: Dr. P. K. S. Yadav, Professor and Head, Department of Oil Technology, HBTU Kanpur

1. Introduction



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The meeting of the Bureau of Indian Standards, Chemical Division-25 (BIS, CHD-25), focused on Soaps, Detergents, and Surface Active Agents, was successfully conducted at Harcourt Butler Technical University (HBTU), Kanpur, on May 11, 2024. The meeting was presided over by Dr. P. K. S. Yadav, the Chairperson of the CHD-25 Committee.

2. Agenda

The primary agenda of the meeting included:

- Review of current standards related to soaps, detergents, and surface-active agents.
- Discussion on potential revisions and updates to existing standards.
- Consideration of new proposals for standardization in the relevant areas.
- Feedback and suggestions from industrial representatives on practical applications and challenges in adhering to the standards.

3. Key Discussions

- **Review of Existing Standards:** The committee reviewed the current standards in detail, focusing on areas where updates might be necessary to keep up with technological advancements and market demands.
- **Proposals for New Standards:** Several new proposals were put forth by committee members and industrial representatives, particularly in the areas of sustainable and environmentally friendly detergents.
- **Industry Feedback:** The industrial representatives provided valuable insights into the challenges faced in complying with the standards and suggested areas where flexibility or further clarity could be beneficial.
- **Future Directions:** The committee discussed the future direction of standardization in the sector, emphasizing the importance of incorporating new scientific findings and industry trends into the standards.



4. Attendance

The meeting was attended by a diverse group of participants, including members from academic institutions, representatives from various industries, and other stakeholders. The hybrid mode facilitated participation from members who were unable to attend in person, ensuring wide representation.

Interactive Session on BIS, New Delhi Initiatives for Technical Institutions. on 11.06.2024 at H.B.T.U., Kanpur, organized by OTD
Speaker: Mr. Virendra Singh, Scientist-E, BIS, New Delhi

S.No.	Name & Designation	Signature
1.	Prof. P.K.S. Yadav, HOD, OTD	[Signature]
2.	Prof. G.L. DEYANI, DSOCT	[Signature]
3.	Prof. Indira Nigam, HOD PL	[Signature]
4.	Dr. Sivar. Sanyal, Assoc. Dean, R&D	[Signature]
5.	Prof. C.N. Singh, HOD-E&E & fw DSOE	[Signature]
6.	Prof. Vivek Kumar, food tech.	[Signature]
7.	Dr. Shivam Shreevastava, Asst. Prof.	[Signature]
8.	Dr. Anjali Awasthi, Asst. Prof.	[Signature]
9.	Dr. Ziaul Arif	[Signature]
10.	Dr. Rajkumar Kunhwa, for HOD-BE	[Signature]
11.	A.K. Shankhwar, HOD, IT	[Signature]
12.	Dr. Anand Kumar, HOD, ME	[Signature]
13.	Vineet Gauram, Asst. Prof. (OT)	[Signature]
14.	Dr. Radha Sachan, Assistant Prof. (PT)	[Signature]
15.	Dr. Neeraj P. Anand, Associate Prof. (OT)	[Signature]
16.	Sanjay Kumar Singh, Assistant Prof. (OT)	[Signature]
17.	Dr. Amit K. Rathore, Associate Prof. (Chem Engg)	[Signature]
18.	Gaurav Singh, Assistant Prof. (O.T.D.)	[Signature]
19.	Prof. Vinod K. Yadav, Prof./R Head	[Signature]
20.	Prof. Rk TRIVEDI, OT	[Signature]

5. Resolutions and Action Points

- It was resolved that a sub-committee would be formed to draft revisions to the current standards and to explore the feasibility of the new proposals discussed.



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- The committee agreed to hold the next meeting in six months to review progress on these initiatives.