







DEPARTMENT: SCHOOL OF PHARMACY CIRCULAR

No: AJU/SOHAS/036/24

Date 4th March 2024

It is hereby notified that a virtual session Dr. D. K. Tripathi on "Theoretical and Practical Aspects of Rheology for Pharmaceutical Formulations: An Industrial Approach" on 11th, 13th, 15th and 18th of March 2024 at 2:30 pm. Venue will be seminar hall of SISHRUTA on virtual mode. Students informed to join generously.

School of Pharmacy

ARKA JAIN University Jhurkband Dean School of Pharmacy Copy to Office of the Registrar IQAC Class Coordinators In charge website Office Record

Student Whatsapp group





Theoretical and Practical Aspects of Rheology for Pharmaceutical Formulations: An Industrial Approach

Date of Event	11/03/2024 - 18/03/2024
Name of the Event	Theoretical and Practical Aspects of Rheology for Pharmaceutical Formulations: An Industrial Approach
Type of the Event	Technical Skill Development
Conducted by	School of Pharmacy
No. Of Participant	102

OBJECTIVE: The objective of conducting the session on Rheology for pharmaceutical formulations was to empower participants with knowledge, skills, and insights that are essential for success in the pharmaceutical industry.

DETAILS: A virtual session on the Theoretical and Practical Aspects of Rheology for Pharmaceutical Formulations: An Industrial Approach was conducted by the School of Pharmacy, ARKA JAIN University at Sushruta, Block B seminar hall from March 11th to 18th, 2024. The keynote speaker for the session was Dr. Dulal Krishna Tripati, former Dean of the Faculty and Chairman BOS, Chhattisgarh Swami Vivekananda Technical University, Bhilai, India. The session aimed to provide insights into the fundamental concepts of Rheology and its application in pharmaceutical industries. On Day 1, the session commenced with a warm welcome note by Ms. Purnima Mahato, Assistant Professor at ARKA JAIN University, followed by an introduction by Dr. Jyotirmaya Sahoo, Dean of the School of Health and Allied Sciences. Day 1 focused on introductory topics including Rheology, determination of viscosity, viscosity, and its relation with resistance, selection of viscometers, Ostwald viscometer, Brookfield viscometer, deformation, plastic deformation. Day 2 delved into more advanced topics including the rate of shear and shearing stress, Newton's law of flow, fluidity, kinematic viscosity, the effect of temperature, and non-Newtonian fluids. The session aimed to provide a deeper understanding of the behaviour of fluids under different conditions and their relevance in pharmaceutical formulations. The third day of the session focused on plastic flow, pseudo plastic flow, dilatants flow, Bingham bodies, rotational viscometer, thixotropy and bulges and spears. These topics shed light on the diverse properties of fluids and their behaviour, crucial for formulating pharmaceutical products. The final day of the session witnessed Dr. Dulal encouragement and acknowledgment of the enthusiasm and dedication shown by the students throughout the session. He emphasized the practical implications of the topics covered and their significance in the pharmaceutical industry. The session concluded with a question-answer round, allowing students to clarify their doubts and consolidate their understanding.



The session proved to be highly informative and engaging, providing students with valuable insights into the theoretical and practical aspects of Rheology in pharmaceutical formulations. The initiative taken by Dr. Jyotirmaya Sahoo and the coordination efforts of Ms. Purnima Mahato, Mr. Pravas Ranjan Das, and Mr. Ashutosha ensured the success of the session. Students appreciated the opportunity to learn from Dr. Dulal Krishna Tripati's expertise and expressed gratitude for the well-organized and conceptualized session.

OUTCOMES: The session on Rheology for pharmaceutical formulations provided deeper insights into rheological principles, enhanced practical skills, and improved problem-solving abilities. Attendees also benefited from networking opportunities, motivation from industry experts, and valuable knowledge transfer, contributing to their professional growth and development.





Poster of the Event







Photos of the Event



Students actively participate to broaden their understanding of Rheology



Students actively participate in discussions with Dr. Dulal Krishna Tripati, gaining valuable insights into Rheology for pharmaceutical formulations





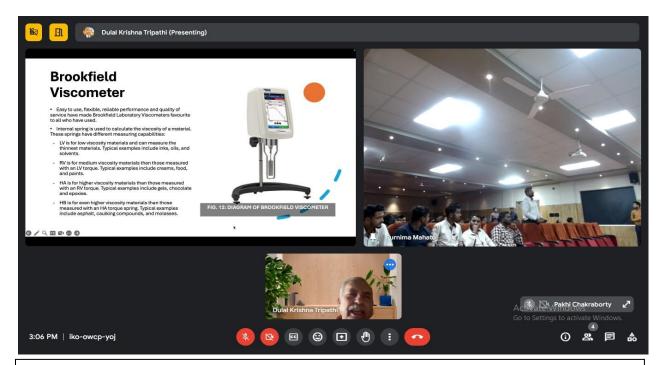


Students igniting their curiosity and passion for understanding Rheology in Pharmaceutical Formulations

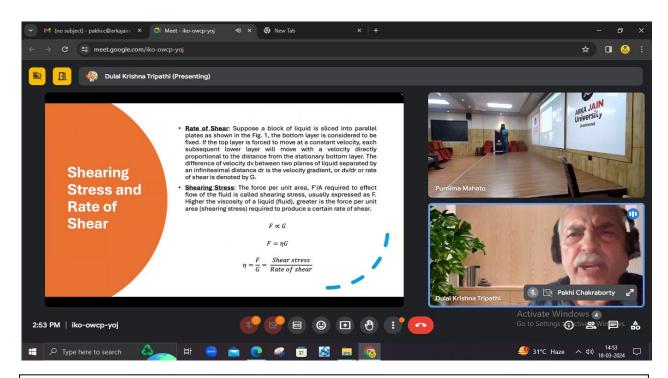


Students fully engrossed, listening attentively to every word during the session





Dr. Tripati sharing his insights about Brookfield viscometer

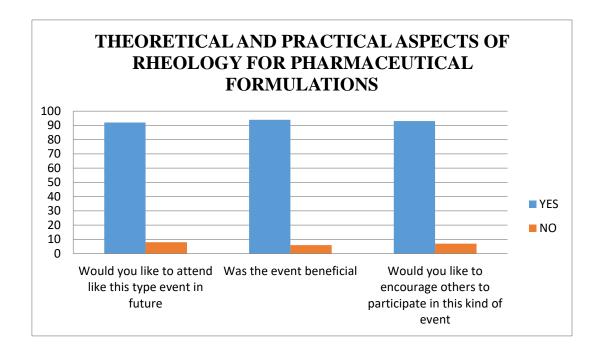


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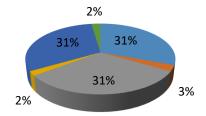


Feedback Analysis



THEORETICAL AND PRACTICAL ASPECTS OF RHEOLOGY FOR PHARMACEUTICAL FORMULATIONS

- Would you like to attend like this type event in future YES
- Would you like to attend like this type event in future NO
- Was the event beneficial YES
- Was the event beneficial NO
- Would you like to encourage others to participate in this kind of event YES
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Signature of the Event Coordinator

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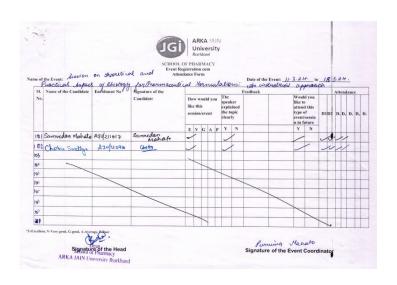




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