ARKA JAIN University Jharkhand | NAAC GRADE A

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 Jharkhand
Dean
School of Pharmacy

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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.

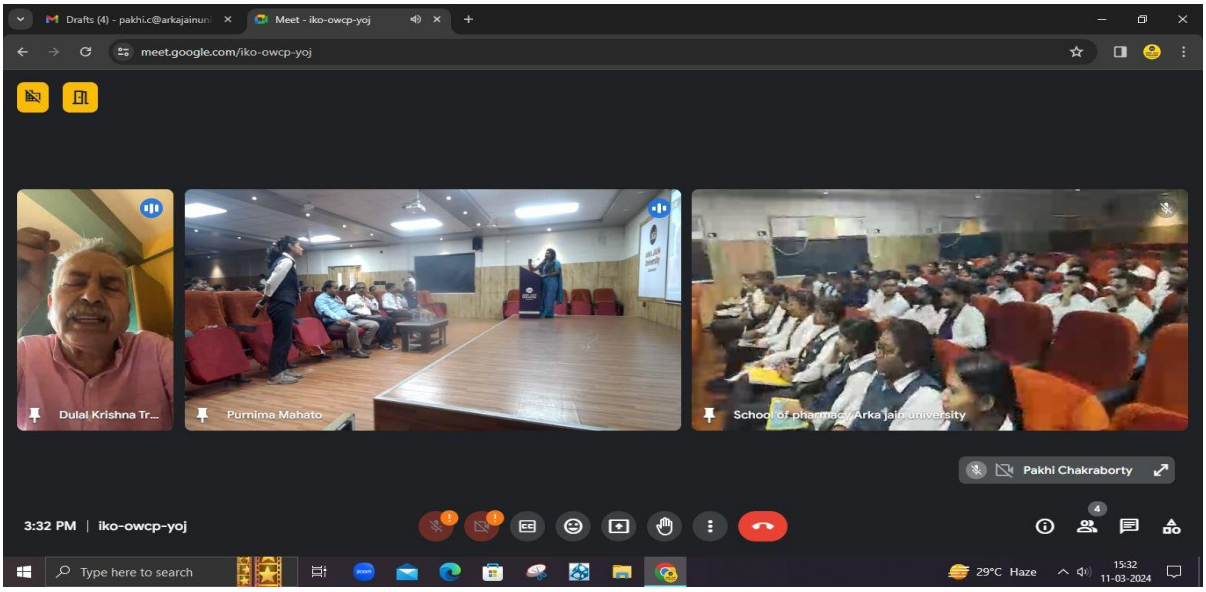
Poster of the Event

Photos of the Event

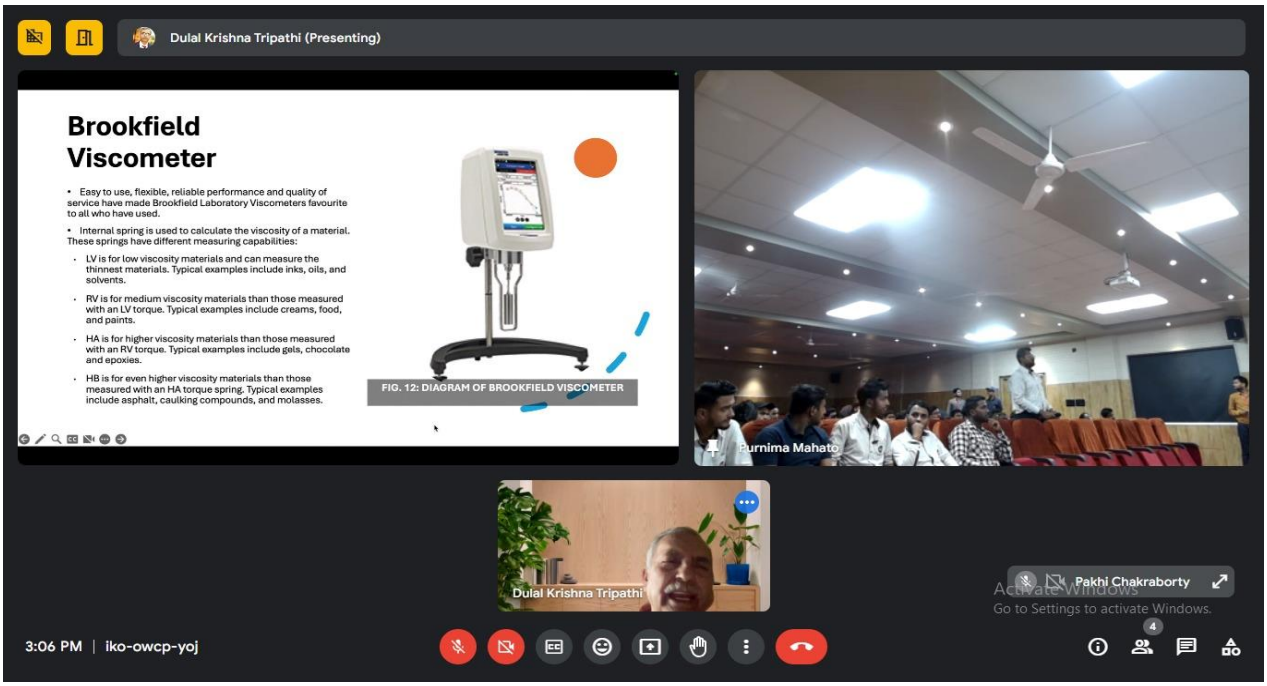
Students actively participate to broaden their understanding of Rheology

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

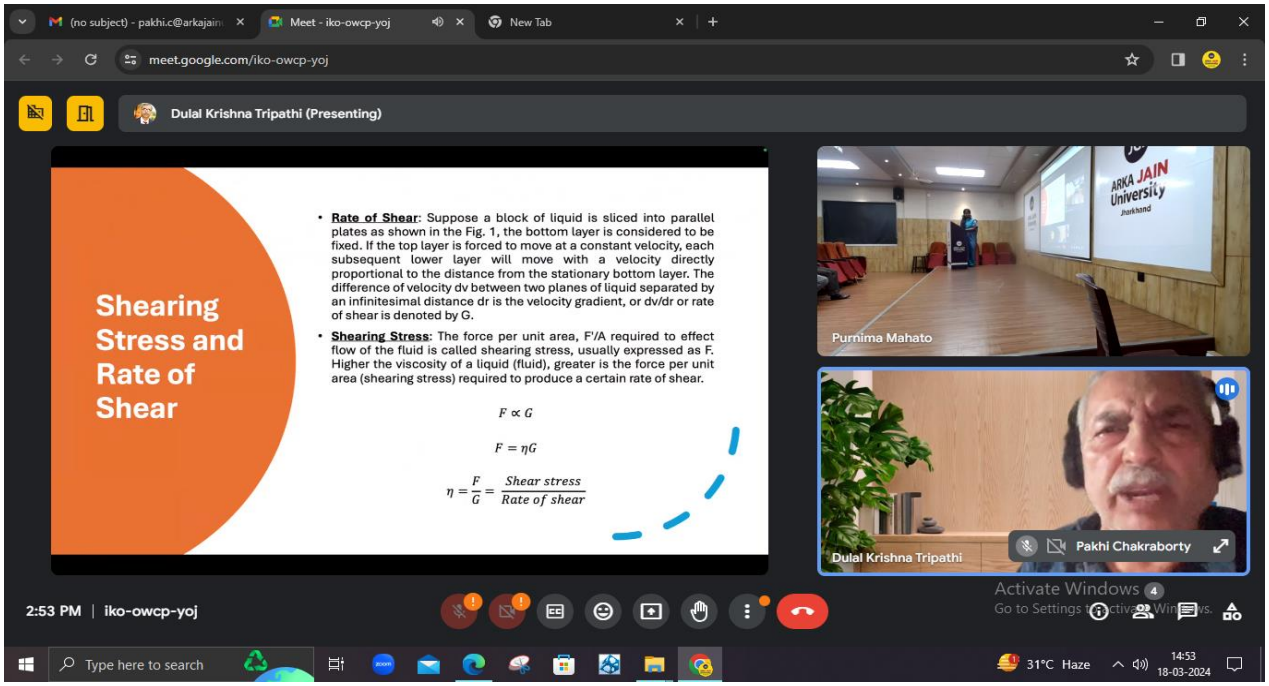
Students igniting their curiosity and passion for understanding Rheology in Pharmaceutical Formulations



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

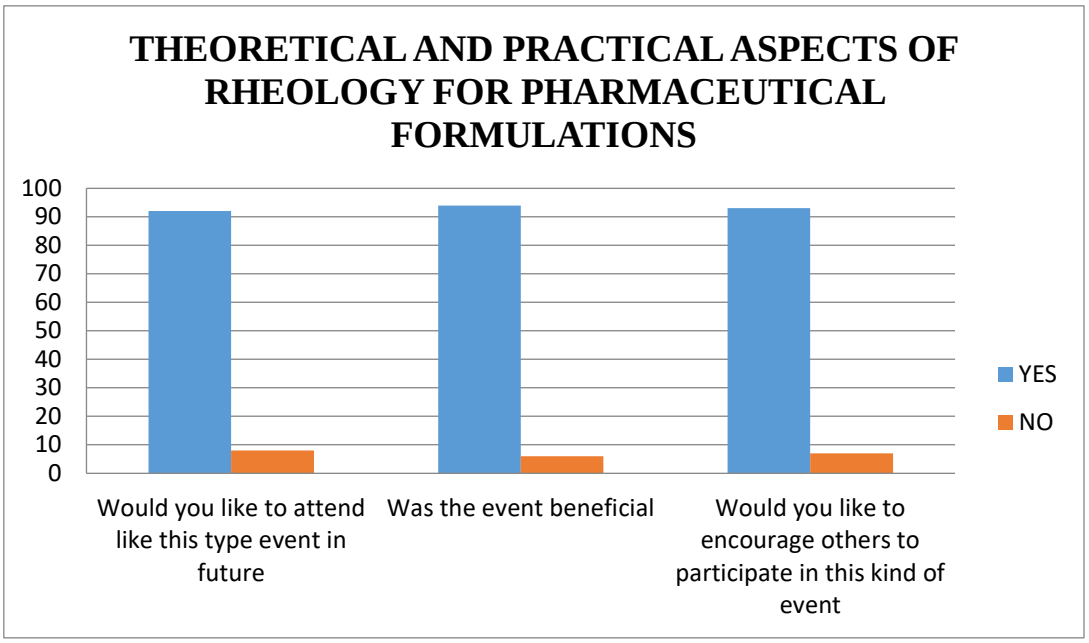


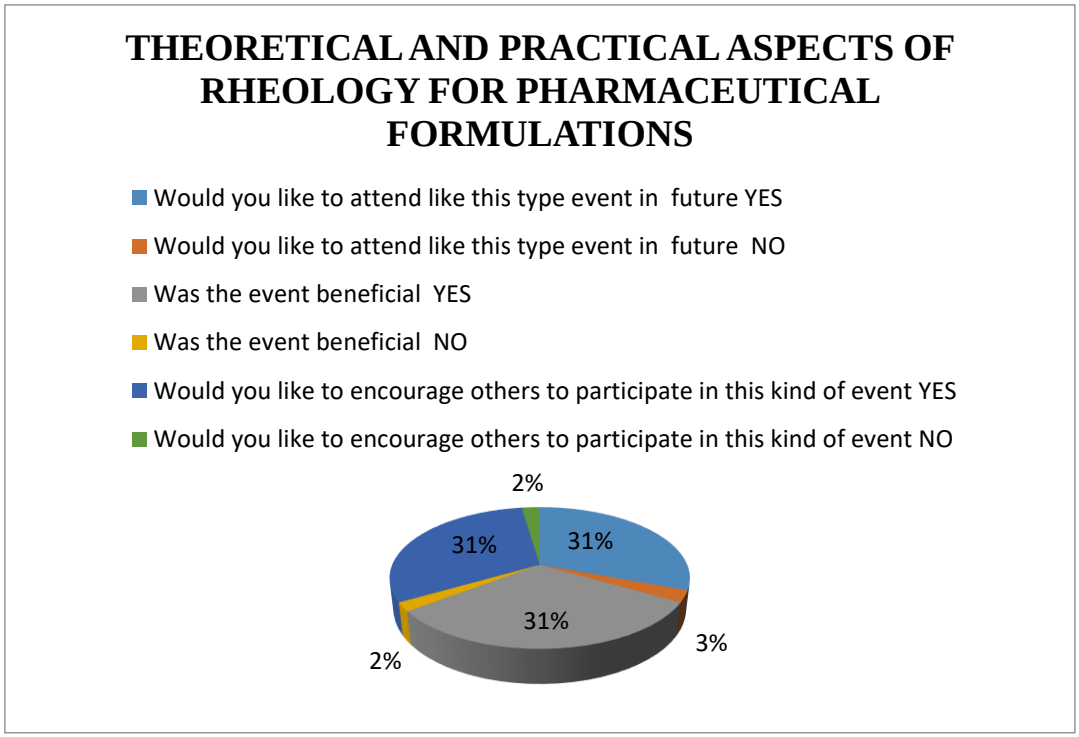
Dr. Tripati sharing his insights about Brookfield viscometer



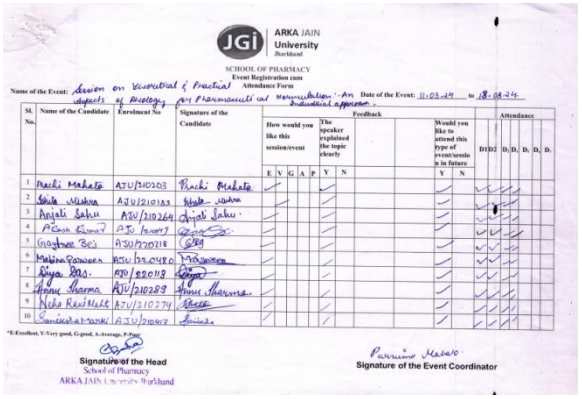
Sir emphasizes the importance of shearing stress and rate of shear in formulations

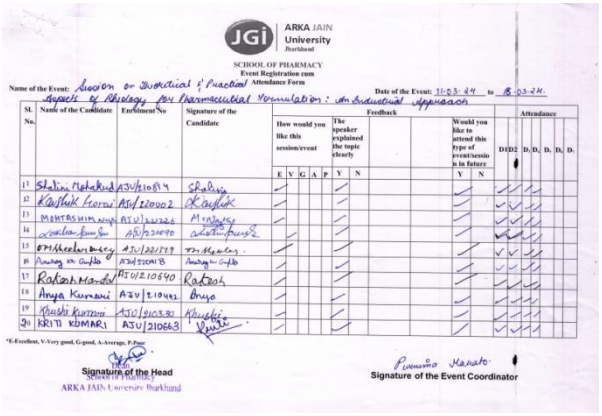
Feedback Analysis

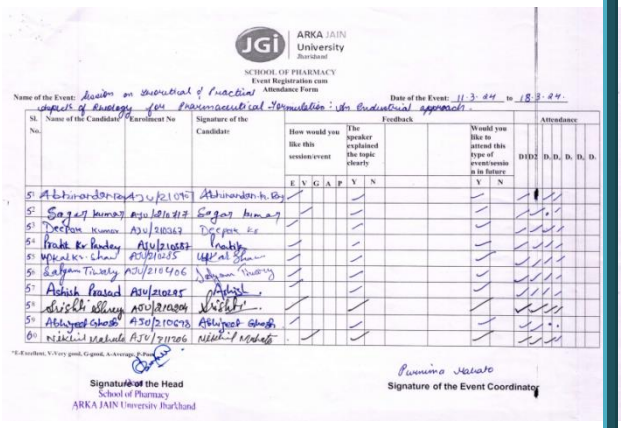


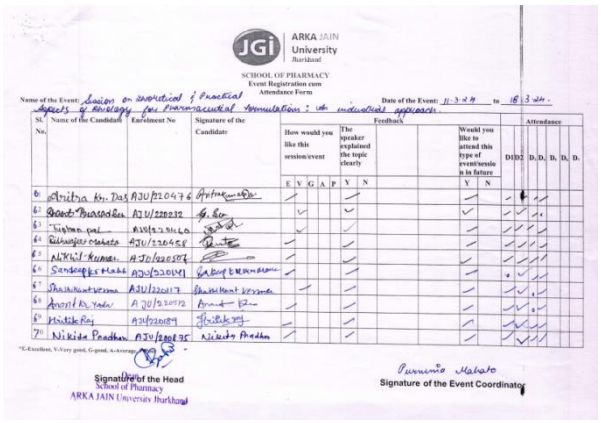


Participants









ARKA JAIN University Jharkhand
SCHOOL OF PHARMACY
Event Registration cum Attendance Form

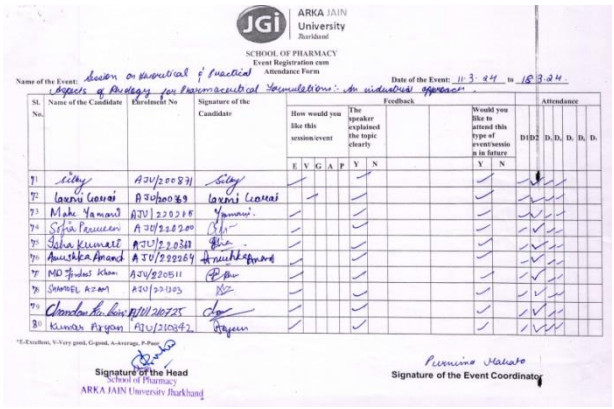
Name of the Event: Session on theoretical & Practical aspects of Rheology for Pharmaceutical Formulations: An industrial approach
Date of the Event: 11.3.24 to 18.3.24

Sl. No.	Name of the Candidate	Enrolment No	Signature of the Candidate	Feedback: How would you like this session/event (E V G A P)	Feedback: The speaker explained the topic clearly (Y N)	Feedback: Would you like to attend this type of event/session in future (Y N)	Attendance: D1 D2 D3 D4 D5 D6
6	Amitra kr. Das	AJU/220476	Amitra Kr Das	✓	✓	✓	✓ ✓
6	Preeti Barnabas	AJU/220232	P. Bar	✓	✓	✓	✓ ✓
6	Tushar Pal	AJU/220460	Tushar	✓	✓	✓	✓ ✓
6	Debanjan Debata	AJU/220458	Debanjan	✓	✓	✓	✓ ✓
6	Nikhil Kumar	AJU/220387	Nikhil	✓	✓	✓	✓ ✓
6	Sandeep Kr Hasda	AJU/220491	Sandeep Kr Hasda	✓	✓	✓	✓ ✓
6	Shashikant Verma	AJU/220417	Shashikant Verma	✓	✓	✓	✓ ✓
6	Anand Kr Yadav	AJU/220512	Anand Kr Yadav	✓	✓	✓	✓ ✓
6	Mridul Roy	AJU/220489	Mridul Roy	✓	✓	✓	✓ ✓
7	Nikita Pradhan	AJU/220435	Nikita Pradhan	✓	✓	✓	✓ ✓

*E-Excellent, V-Very good, G-good, A-Average, P-Poor

Signature of the Head
School of Pharmacy
ARKA JAIN University Jharkhand

Purnima Mahato
Signature of the Event Coordinator



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91	Lilly	AJU/200831	Lilly	✓	✓	✓	✓ ✓
92	Laxmi Gowai	AJU/200869	Laxmi Gowai	✓	✓	✓	✓ ✓
93	Mahe Yamani	AJU/220318	Yamani	✓	✓	✓	✓ ✓
94	Sifat Parveen	AJU/220200	Sifat	✓	✓	✓	✓ ✓
95	Isha Kumari	AJU/220381	Isha	✓	✓	✓	✓ ✓
96	Anushka Anand	AJU/220264	Anushka Anand	✓	✓	✓	✓ ✓
97	MD Firdous Khan	AJU/220511	P. Bar	✓	✓	✓	✓ ✓
98	SHAHBEL AZAM	AJU/220305	NA	✓	✓	✓	✓ ✓
99	Chandan Kr. Gupta	AJU/210725	Gupta	✓	✓	✓	✓ ✓
100	Kumar Aryan	AJU/210942	Aryan	✓	✓	✓	✓ ✓

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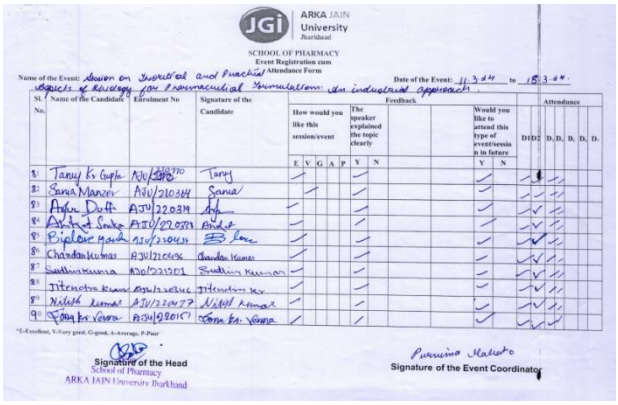

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81	Tanuj Kr Gupta	AJU/220370	Tanuj	✓	✓	✓	✓ ✓
82	Sania Manzer	AJU/210344	Sania	✓	✓	✓	✓ ✓
83	Arfin Dutt	AJU/220434	Arfin	✓	✓	✓	✓ ✓
84	Arpita Saha	AJU/220321	Arpita	✓	✓	✓	✓ ✓
85	Pipleen Kaur	AJU/220443	Pipleen	✓	✓	✓	✓ ✓
86	Chandan Kumar	AJU/210656	Chandan Kumar	✓	✓	✓	✓ ✓
87	Sudhir Kumar	AJU/220501	Sudhir Kumar	✓	✓	✓	✓ ✓
88	Jitendra Kumar	AJU/220562	Jitendra Kr	✓	✓	✓	✓ ✓
89	Nikhil Kumar	AJU/220477	Nikhil Kumar	✓	✓	✓	✓ ✓
90	Sonu Kr Verma	AJU/220157	Sonu Kr. Verma	✓	✓	✓	✓ ✓

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		AJU/220463					
91	Abhimanyu		Abhi kumar	✓	✓	✓	✓ ✓
92	Ankit Kumar	AJU/220162	Ankit	✓	✓	✓	✓ ✓
93	Archana Maura	AJU/220433	Archana Mau	✓	✓	✓	✓ ✓
94	Hiranmoy Kumar	AJU/220109	Hiranmoy	✓	✓	✓	✓ ✓
95	Kiran Sharma	AJU/220406	Kiran	✓	✓	✓	✓ ✓
96	Md. Ashif	AJU/211253	Ashif	✓	✓	✓	✓ ✓
97	Anurag Acharya	AJU/211205	Anurag	✓	✓	✓	✓ ✓
98	Pankhuri Roy	AJU/210651	Pankhuri Roy	✓	✓	✓	✓ ✓
99	Amit Dhal	AJU/210455	Amit Dhal	✓	✓	✓	✓ ✓
100	Abhishek Agrawal	AJU/210445	Abhishek	✓	✓	✓	✓ ✓

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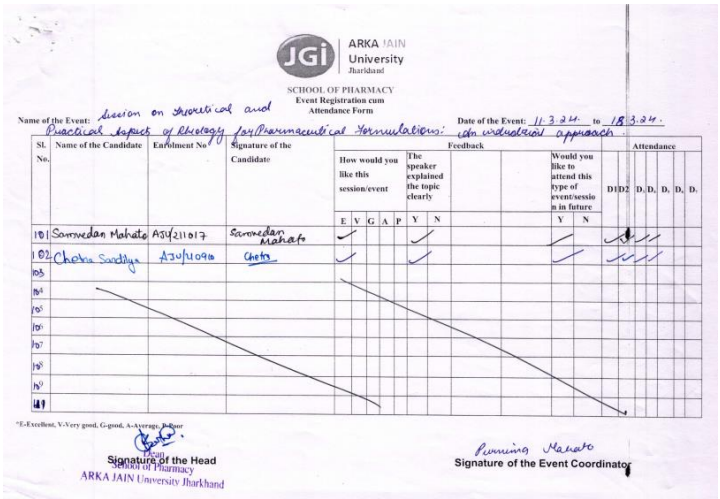

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101	Sarvedan Mahato	AJU/211017	Sarvedan Mahato	✓	✓	✓	✓ ✓
102	Chetna Sardhya	AJU/11090	Chetna	✓	✓	✓	✓ ✓
103							
104							
105							
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