

CIRCULAR

DEPARTMENT OF BIOTECHNOLOGY
SCHOOL OF ALLIED HEALTH SCIENCE

CIRCULAR

Ref No. AJU/SOHAS/332/25

Date: 25-10-2025

Department of Biotechnology, School of Allied Health Science, Arka Jain University is organizing a Workshop on “Application of Biostatistics in Biotechnology” from 24th to 28th November 2025.

It is mandatory for all the students of B.Sc. Biotechnology 1semester (2025-28 Batch) to attend the workshop.

Date: 24th to 28th November 2025

Time: 12:30 to 3:30 PM

Venue: Room No 128 A Block


Dr. Santosh Kumar Singh
Head of Department
Department of Biotechnology,
ARKA JAIN University, Jharkhand
HOD
Department of Biotechnology
School of Health & Allied Science
ARKA JAIN University, Jharkhand

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2. PS to the Director
3. PS to the Registrar
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WORKSHOP ON

"IMPORTANCE OF BIOSTATISTICS IN BIOTECHNOLOGY"

Date of Event	24th to 28th November 2025
Name of the Event	Workshop on "Importance of Biostatistics in Biotechnology"
Type of the Event	Workshop
Conducted by	Department of Biotechnology
Coordinator	Dr. Santosh Kumar Singh, Dr. Pratima Srivastava
No. Of Participants	36

OBJECTIVE:

The workshop on **"Importance of Biostatistics in Biotechnology"** was designed to introduce students to the essential role of statistical methods in modern biological research. The primary objectives of the workshop were to help participants understand the fundamental concepts of biostatistics, develop the ability to apply statistical tools in experimental design, and interpret biological data accurately. Through expert-led sessions, students were guided to appreciate how biostatistics enhances the reliability, validity, and reproducibility of biotechnological studies. The workshop also aimed to strengthen analytical thinking, promote data-driven decision-making, and equip learners with practical skills required for research, diagnostics, and industry applications. The significant objectives include:

- To provide students with a foundational understanding of biostatistical tools and their application in biotechnology.
- To familiarize students with data collection, representation, interpretation, and analysis techniques.
- To enhance students' analytical skills in handling biological datasets.
- To demonstrate the role of biostatistics in designing experiments, validating results, and supporting research conclusions.
- To expose students to real-world examples of statistical methods used in biotechnology research.

DETAILS:

The Department of Biotechnology organized a workshop on **"Importance of Biostatistics in Biotechnology"** from 24th to 28th November 2025 for B.Sc. Biotechnology students (2025-28 Batch). The workshop was conducted by three distinguished resource persons—Dr. Santosh Kumar Singh (Associate Professor & Head Department of Biotechnology), Dr. Shweta (Associate Professor, School of Pharmacy), and Dr. Chanchal Mandal (Assistant Professor, Department of Commerce &

Management)—who collectively brought their expertise in statistical applications (Stat Craft), data interpretation, and experimental design.

The workshop began with a welcome note and the introduction of the expert speakers by Dr. Pratima (Assistant Professor, Biotechnology). **Dr. Santosh Kumar Singh** initiated the session by explaining the fundamental concepts of biostatistics and its indispensable role in biological research. He discussed key statistical terms and emphasized the relevance of quantitative analysis in modern biotechnology. Following this, **Dr. Shweta** delivered a detailed presentation on data types, measures of central tendency, dispersion, and graphical representation of biological data. She demonstrated how basic statistical tools help in interpreting research findings accurately. **Dr. Chanchal Mandal** explained the practical insights into hypothesis testing, probability distributions, sampling methods, and the application of (Stat craft) statistical software. He also presented case studies showing how biostatistics supports evidence-based conclusions in biotechnology experiments.

Throughout the session, the resource persons interacted with students, clarified their doubts, and encouraged them to apply statistical reasoning in their academic projects.

TAKEAWAY (OUTCOMES):

The workshop on “**Importance of Biostatistics in Biotechnology**” provided B.Sc. Biotechnology students with valuable exposure to essential statistical concepts and their real-world applications. It successfully enhanced their analytical skills and reinforced the significance of biostatistics in scientific investigation. The Department of Biotechnology plans to organize similar workshops to continue developing students’ research competence and data-handling abilities. The participants responded positively to the workshop, appreciating the clarity of explanations and the practical approach taken by the speakers. They found the examples and demonstrations highly relevant to their course curriculum and future research activities.

- Students gained enhanced awareness of the importance of biostatistics in biotechnology research.
- Participants developed a clearer understanding of statistical concepts and their applications.
- The workshop improved students’ ability to analyze, interpret, and present biological data.
- Students learned to apply biostatistical tools for designing experiments and validating research findings.
- The session strengthened students’ readiness to handle data-driven scientific tasks and pursue research-based careers.

POSTER OF THE EVENT



ARKA JAIN
University
Jharkhand

NAAC
GRADE A
ACCREDITED UNIVERSITY

DEPARTMENT OF BIOTECHNOLOGY
ORGANISES
Workshop on
"Application of Biostatistics
in Biotechnology"

Time: 12:30 PM to 3:30 PM

Date: 24th to 28th November 2025

Room No 128, A-Block



DR. SHWETA

Associate Professor
School of Pharmacy
ARKA JAIN University



DR. SANTOSH KUMAR SINGH

Associate Professor
Department of
Biotechnology
ARKA JAIN University



DR. CHANCHAL MONDAL

Assistant Professor
Department of
Research
ARKA JAIN University

www.arjainuniversity.ac.in

Toll Free 1800-1200-200

PHOTOS OF THE EVENT



Fig.1- Dr. Santosh explain the Stat Craft by giving example of case study



Fig. 2- Dr. Chanchal taking a session on Stat Craft software by examples and case study



Fig. 3- Dr. Shweta taking the session on Collection of data and its application in research in Biotechnology



Fig. 4- Dr. Chanchal explaining about the various software use in Data analysis



Fig. 5- Dr. Santosh explaining the basics of Biostatics & its application in Biotechnology

LIST OF PARTICIPANTS

ARKA JAIN University **NAAC GRADE A**

DEPARTMENT OF BIOTECHNOLOGY
School of Allied Health Science
Attendance cum Feedback Form

Name of the Event: **WORKSHOP ON "IMPORTANCE OF BIOSTATISTICS IN BIOTECHNOLOGY"** Date of the Event: **24th - 28th November 25**
3rd Dec 25

S. No	Name	Enrollment No.	Signature	Feedback								Attendance																
				Y		N		E		S		NS		E		S		NS		Y		N		Day 1	Day 2	Day 3	Day 4	Day 5
				✓	-	✓	-	-	-	✓	-	-	-	✓	-	✓	-	-	✓	-	✓	-	✓	✓	✓	✓	✓	✓
1	Asha Kumari	250033	Asha	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
2	Raj Palita	250336	Rajita	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
3	Hrushikesh Banerjee	250806	Hrushikesh	✓	-	-	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
4	Parinay Brattacharya	251010	Parinay	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
5	Mrinmoyee Mishra	2501185	Mr. Mishra	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
6	Kanchan Kujjharia	251042	Kanchan	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
7	Latika Nayak	251140	Latika	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
8	Suchita Prasad	250635	Suchita	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
9	Ria Mandal	250636	Ria	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
10	Rani Kumari	251671	Rani	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			

Signature of event coordinator

Signature of HOD
Department of Biotechnology
School of Health & Allied Science
ARKA JAIN University, Jharkhand

ARKA JAIN University **NAAC GRADE A**

DEPARTMENT OF BIOTECHNOLOGY
School of Allied Health Science
Attendance cum Feedback Form

Name of the Event: _____ Date of the Event: _____

S. No	Name	Enrollment No.	Signature	Feedback								Attendance																
				Y		N		E		S		NS		E		S		NS		Y		N		Day 1	Day 2	Day 3	Day 4	Day 5
				✓	-	✓	-	-	-	✓	-	-	-	✓	-	✓	-	-	✓	-	✓	-	✓	✓	✓	✓	✓	✓
1	Effat Aree	251233	Effat Aree	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
2	Nisha Mandla	250721	Nisha Mandla	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
3	Hanslikha	251434	Hanslikha	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
4	Samridhi L.	251810	Samridhi L.	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
5	Naresh Yadav	251690	Naresh Yadav	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
6	Nutan Karkar	251556	Nutan Karkar	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
7	Anil Kumar	252272	Anil Kumar	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
8	Shubham Ray	250877	Shubham	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
9	Aniket Ray	252286	Aniket Ray	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			
10	Shradha Khan	250333	Shradha Khan	✓	-	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓			

Signature of event coordinator

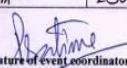
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Department of Biotechnology
School of Health & Allied Science
ARKA JAIN University, Jharkhand

DEPARTMENT OF BIOTECHNOLOGY
School of Allied Health Science
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				Y	N	E	S	NS	E	S	NS	Y	N	Day 1	Day 2	Day 3	Day 4	Day 5
1	Breeti Kumari	252273	Breeti	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓
2	Sneha Kumari	252732	Sneha	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓
3	Ruchi Kumari	252978	Ruchi	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓
4	Abhishek Natho	252267	Abhishek	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓
5	Saroj Mahato	251661	Saroj	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓
6	Jay Pramanik	252396	Jay	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓
7	Sambhu Nath Mondal	251463	Sambhu	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓
8	Tarunam Afzal	251623	Afzal	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓
9	Guinala Gope	252510	Guinala	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓
10	Sonam	250831	Sonam	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓


Signature of event coordinator

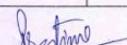

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				Y	N	E	S	NS	E	S	NS	Y	N	Day 1	Day 2	Day 3	Day 4	Day 5
1	Tripti Singh	251639	Tripti Singh	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓
2	Tanisha Kumari	251842	Tanisha	✓	-	-	✓	-	✓	-	-	✓	-	✓	✓	✓	✓	✓
3	Brigdather Meena	252946	Brigdather Meena	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓
4	Rekuri Singh	251596	Rekuri	✓	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓	✓
5	Mayank	252543	Mayank	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓
6	Raj Pakira	250336	Raj	✓	-	-	✓	-	-	✓	-	-	✓	-	✓	✓	✓	✓
7																		
8																		
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