

## CIRCULAR

Circular**Ref. No. AJU/AD/ENGG/017/2025-26****Date: 24.07.2025**

The expert lecture session on "Future of Genetic Engineering and Complementation using human genetics" is going to be organized by Department of Electrical and Electronics Engineering, School of Engineering & IT, and ARKA JAIN University in association with Innovation Council Cell and Science Club on 30<sup>th</sup> July 2025 at 10:25 pm for UG Students. The session will be conducted in offline mode. Students are invited to register for the same using the link provide.

**Link for registration:** <https://forms.gle/1oMYoVKRwvvoXMI5G6>

**Mode of learning:** Offline Mode

**Last Date for Registration:** 28/07/2025 (till 7:00 P.M)

**Convener:**

Dr. Ashwini Kumar ([ashwini.kumar@arkaainuniversity.ac.in](mailto:ashwini.kumar@arkaainuniversity.ac.in))

**Coordinators:**

Dr. ChandraPrabha Saha ([dr.chandra@arkaainuniversity.ac.in](mailto:dr.chandra@arkaainuniversity.ac.in))

Dr. Ashwini Kumar  
Assistant Dean  
School of Engineering & IT  
Arka Jain University, Jharkhand

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1. PS to The Vice-Chancellor
2. PS to The Director
3. PS to DSW/Director Campus
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### EXPERT LECTURE ON “FUTURE OF GENETIC ENGINEERING AND COMPLEMENTATION USING HUMAN GENETICS”

Date of Event	30.07.2025
Name of the Event	Expert Lecture on “Future of Genetic Engineering and Complementation using human genetics”
Type of the Event	Academic
Conducted by	School of Engineering and IT
No. Of Participants	39

#### OBJECTIVE:

The primary objective of an expert lecture is to enhance understanding and engagement by providing students with real-world insights, industry perspectives, and practical application of knowledge and current trends. The lecture aims to provide a comprehensive overview of the field, including recent breakthroughs, ongoing research, and future directions, while fostering a nuanced understanding of the potential benefits and risks associated with genetic engineering in humans.

#### DETAILS:

On 30<sup>th</sup> July 2025, an expert lecture session titled “**Future of Genetic Engineering and Complementation using human genetics**” was conducted in offline mode. The event witnessed enthusiastic participation from 39 students eager to delve into the Genetic Engineering.

Dr. Santosh Kumar Singh, HOD and Associate Professor, Department of BioTechnology, Arka Jain University, Jharkhand served as the distinguished speaker for the session. Dr. Santosh Sir delivered a highly informative talk focusing on the will cover an Genetic engineering and complementation in human genetics offer powerful tools for understanding and treating diseases, as well as potentially enhancing human traits. Complementation tests help determine if mutations are in the same or different genes, guiding gene therapy and drug development. Genetic engineering allows for precise modification of the human genome, potentially preventing and curing inherited disorders and even offering possibilities for human enhancement, though ethical considerations are paramount.

The lecture concluded with an interactive Q&A session, during which students enthusiastically posed queries to the speakers, seeking further clarification and guidance on various aspects of Genetic engineering, including genome editing, can be used to correct disease-causing mutations in somatic cells. Expert's responses provided valuable insights, further enriching the learning experience for the participants. The event concluded with a heartfelt vote of thanks extended to Dr. Santosh Kumar Singh for his enlightening and engaging lecture, as well as to all the participants for their active involvement and enthusiasm.

### **TAKEAWAY (OUTCOMES):**

The outcome of an expert lecture on the future of genetic engineering and complementation using human genetics provide real-world examples and practical applications, helping students grasp concepts. This provide more effectively is to explore the transformative potential of gene editing technologies in addressing human diseases and improving human health, while also critically examining the ethical and societal implications of these advancements.

## POSTER OF THE EVENT



The poster is for an expert lecture event. It features a light blue background with faint illustrations of a DNA helix and a microscope. At the top left, there are logos for JGI, ARKA JAIN University, NAAC Grade A, and the Institution's Innovation Cell. The main title 'Expert Lecture' is in a large, elegant script font, followed by 'On' and the topic 'Future of Genetic Engineering and Complementation using human genetics' in bold. Below this, it states the event is organized by the Department of Electrical and Electronics Engineering, School of Engineering & IT, ARKA JAIN University, in association with the Innovation Council Cell and Science Club. A portrait of Dr. Santosh Kumar Singh is shown on the left. To the right, the convenor and coordinators are listed. At the bottom right, the date and time are given, along with a QR code and the instruction 'SCAN TO REGISTER'.

**JGI** **ARKA JAIN** **NAAC** **INSTITUTION'S**  
University **GRADE A** **INNOVATION CELL**  
Jharkhand

*Expert Lecture*  
On  
**Future of Genetic Engineering and  
Complementation using human genetics**  
Organized by  
**Department of Electrical and  
Electronics Engineering,  
School of Engineering & IT  
ARKA JAIN University**  
In association with  
**Innovation Council Cell  
and Science Club**

  
**Dr. Santosh Kumar Singh**  
Associate Professor  
Head Of Department  
Department of Biotechnology

Convenor : Dr. Ashwini Kumar  
Coordinators: Dr. ChandraPrabha Sahu

Date : 30th July, 2025  
Time: 10:25 am

  
**SCAN TO REGISTER**

## PHOTOS OF THE EVENT

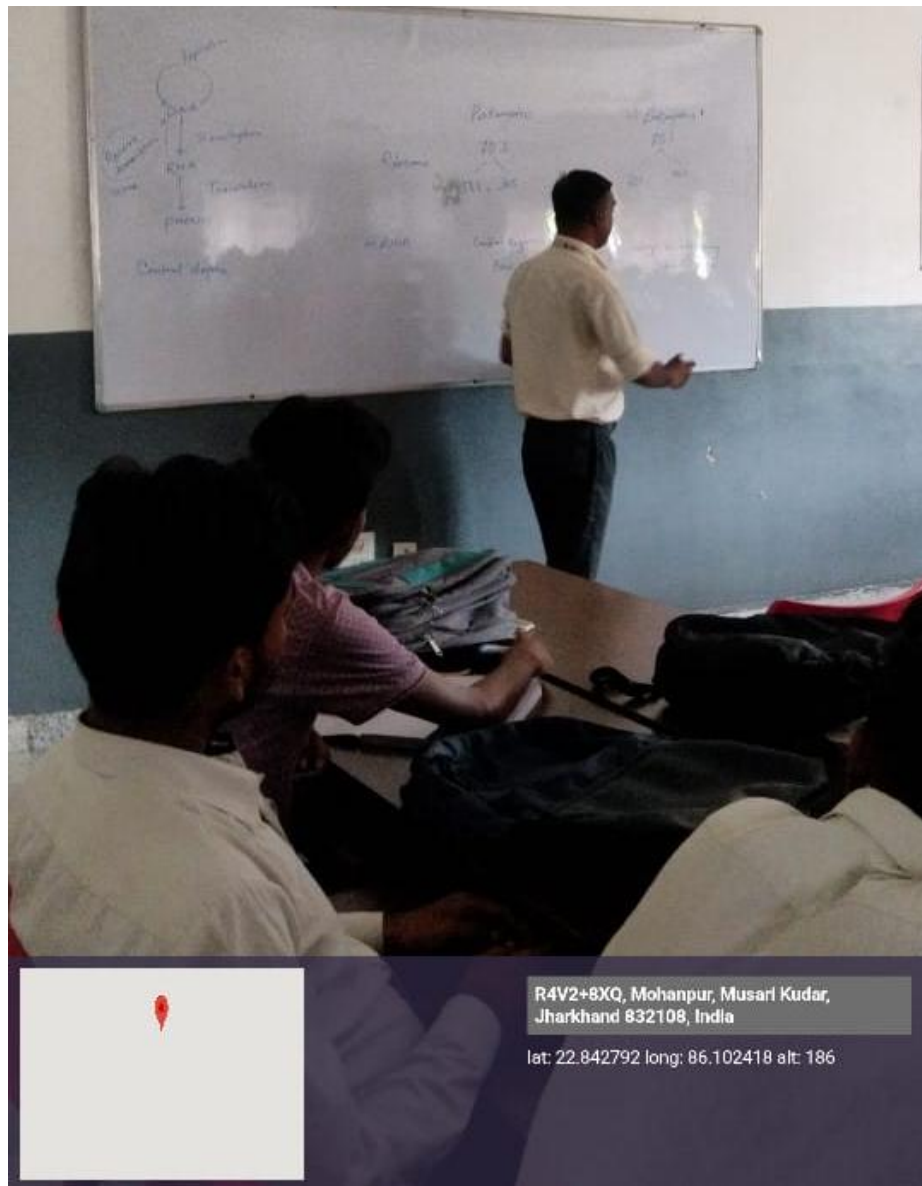


Fig.1- Geotag photo of expert talk





**Fig. 2- Students understanding the concept**





**Fig. 3- Expert delivered the talk**



Fig. 4- Speaker resolve the query of students

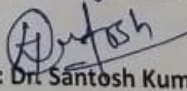
## LIST OF PARTICIPANTS


**ARKA JAIN University**  
 Jharkhand


 NAAC  
 GRADE A  
 ACCREDITED UNIVERSITY

**Attendance Sheet**  
**Expert Lecture Session on "Future of Genetic Engineering and**  
**Complementation using human genetics"**  
**School of Engineering & IT**  
 Date/Day: 30<sup>th</sup> July 2025

S.No.	Name of the Student	Enrolment No.	Signature
1.	Subham Anand	AJU/221890	Subham Anand
2.	AVISHEK KUMAR	AJU/221227	Avishake Kumar
3.	Akash Mishra	AJU/220094	Akash
4.	SANU K. SHARMA	AJU/220676	Sandhya
5.	Vishal Pradhan	AJU/220980	Vishal
6.	Kaushal Kumar Jha	AJU/221191	Kaushal
7.	Rockey Kumar	AJU/221610	Rockey
8.	Roshan Pradhan	AJU/220928	Roshan
9.	Sumit Kumar	AJU/22152	Sumit
10.	Manish Thakur	AJU/220201	Manish
11.	Ankit Kumar	AJU/222125	Ankit Kumar
12.	Smriti Sharma	AJU/222124	Smriti
13.	Nayanshi Kumar	AJU/220499	Nayanshi
14.	Akash prajapati	AJU/221840	Akash prajapati
15.	Amar Das	AJU/220948	Amar Das
16.	DEEPAK RAJ	AJU/221030	Deepak Raj
17.	ANKIT K. Singh	AJU/221026	Ankit K. Singh
18.	Ashish Mahato	AJU/221631	Ashish
19.	Binit Patra	AJU/220505	Binit
20.	Raghunath Soren	AJU/220834	Raghunath
21.	Sagar Malini	AJU/220334	Sagar
22.	Tushar Kumar Das	AJU/220156	Tushar
23.	Pranav Nayak	AJU/220725	Pranav Nayak
24.	Rohit K. Gupta	AJU/221171	Rohit
25.	Asif Khan	AJU/220268	Asif Khan
26.	Aman K. Patra	AJU/221111	Aman K. Patra
27.	Arjun Singh	AJU/220241	Arjun Singh

  
 Resource Person: Dr. Santosh Kumar Singh



Resource Person: Dr. Santosh Kumar Singh