



### Circular

Ref. No. AJU/AD/ENGG/209/2023-24

Date: 26-04-2024

This is to inform all students and faculty members that Department of Electrical and Electronics Engineering, School of Engineering and IT, ARKA JAIN University Jharkhand is going to organize an "Expert Lecture on Emerging Trends in Electrical Safety and Standards in Power Systems" on 23<sup>rd</sup> May 2024. We strongly encourage all students and faculty members who are interested to join and take part in this initiative. As such, we kindly request that all interested individuals register for participation by using the provided link below.

**Link for registration:**

<https://forms.gle/RPztVvk3TiR23iiZz6>

- Last Date for Registration: 22.05.2024, up to 11:59 p.m.
- Mode: Virtual

**Convener:**

Dr. Ashwini Kumar ([dr.ashwini@arkajainuniversity.ac.in](mailto:dr.ashwini@arkajainuniversity.ac.in))

**Coordinators:**

Dr. Md Irfan Ahmed ([dr.irfan@arkajainuniversity.ac.in](mailto:dr.irfan@arkajainuniversity.ac.in))

Prof. Ashwini Kumar *26/4/24*  
Asst. Dean  
School of Engg. & IT

ARKA JAIN University, Jharkhand-832108

Asst. Dean  
School of Engineering & IT  
ARKA JAIN University

**Copy for information & necessary action please: -**

1. PS to the Vice Chancellor
2. PS to the Director
3. PS to the Registrar
4. Controller of Examination for information
5. In charge Web Services for Website
6. Notice Board
7. Guard File

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## EXPERT LECTURE ON “EMERGING TRENDS IN ELECTRICAL SAFETY AND STANDARDS IN POWER SYSTEMS”

<b>Date of Event</b>	<b>23/05/2024</b>
<b>Name of the Event</b>	<b>Expert Lecture on “Emerging Trends in Electrical Safety and Standards in Power Systems”</b>
<b>Type of the Event</b>	<b>Technical Skill Development</b>
<b>Conducted by</b>	<b>School of Engineering &amp; IT, ARKA JAIN UNIVERSITY JHARKHAND</b>
<b>Resource Person</b>	<b>Dr. Naiyer Mumtaz, Associate Professor, Department of Electrical and Electronics Engineering, Cambridge Institute of Technology Ranchi, Jharkhand (naiyermumtaz@citranchi.ac.in)</b>
<b>Convener</b>	<b>Dr. Ashwini Kumar</b>
<b>Co-Ordinator</b>	<b>Dr. Md Irfan Ahmed</b>
<b>No. Of Participants</b>	<b>36</b>

**OBJECTIVE:** The main objective of the expert lecture on “Emerging Trends in Electrical Safety and Standards in Power Systems” is to educate students on the fundamentals of electrical and electronics, as well as the latest advancements, innovations, and regulatory standards in electrical safety. The lecture aims to increase awareness of potential hazards, discuss challenges and solutions, share best practices and real-world case studies, and support professional development and networking within the industry. Ultimately, it seeks to enhance knowledge and promote safer power systems.

## DETAILS:

An Expert Lecture on Emerging Trends in Electrical Safety and Standards in Power Systems was organized by the school of Engineering & IT, ARKA, JAIN University on May 23, 2024. The Expert lecture aimed to provide participants with practical insights into the latest trends in electrical safety and standards within power systems. The lecture covered a range of topics, including from basics to the advancements in safety protocols, innovative standards being adopted in the industry, and practical applications of these standards in real-world scenarios. All students and staff members of the university were invited to participate in this event to understand the various benefits and advantages of these emerging trends. The venue for the event was Online mode through Google meet. The resource person of the event was Dr. Naiyer Mumtaz the Associate Professor of Department of Electrical and Electronics Engineering, Cambridge Institute of Technology Ranchi, Jharkhand. The event was successfully coordinated by Dr. Md Irfan Ahmed, Assistant Professor, Dept. of E.E.E., School of Engg. & I.T.

## OUTCOMES:

The Expert Lecture on “**Emerging Trends in Electrical Safety and Standards in Power Systems**” enhanced participants' knowledge of the latest developments in electrical safety protocols and standards. By attending this event, participants were expected to gain a comprehensive understanding of how these emerging trends could improve safety and efficiency in power systems. Also, attendees gained practical insights into industry practices, improving their safety practices and professional competencies.



# Poster of the Event



School of Engineering and IT

*Organizes*

## EXPERT LECTURE Emerging Trends in Electrical Safety & Standards in Power Systems

**Date : 23rd May, 2024**

**Time : 1:00 P.M. onwards**

**Venue : Virtual Mode**

**Last Date for Registration: 22nd May, 2024**

**Link for registration:**

<https://forms.gle/RPztVk3TiR23iiZz6>



**GUEST**

### DR. NAIYER MUMTAZ

Associate Professor  
Dept. of Electrical and Electronics Engineering  
Cambridge Institute of Technology  
Ranchi, Jharkhand, India

**Convener : Dr. Ashwini Kumar**

**Coordinator : Dr. Md Irfan Ahmed**

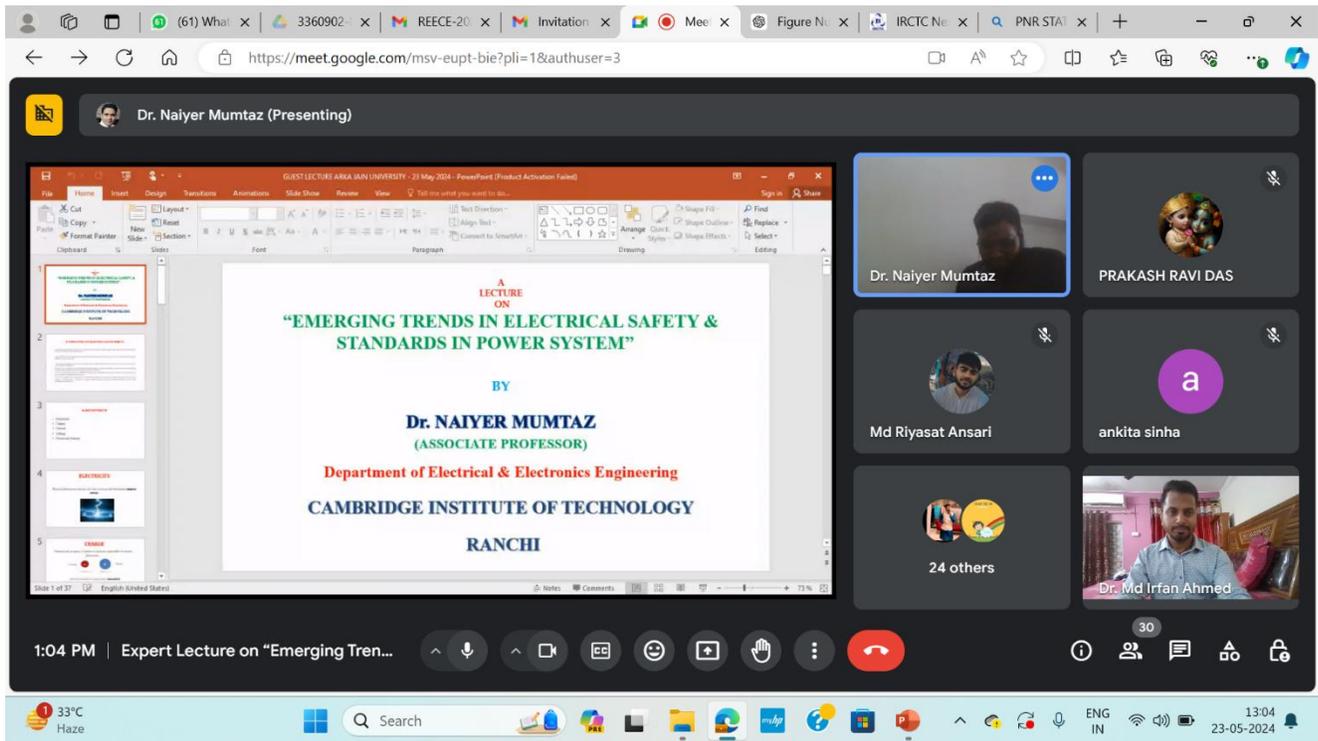
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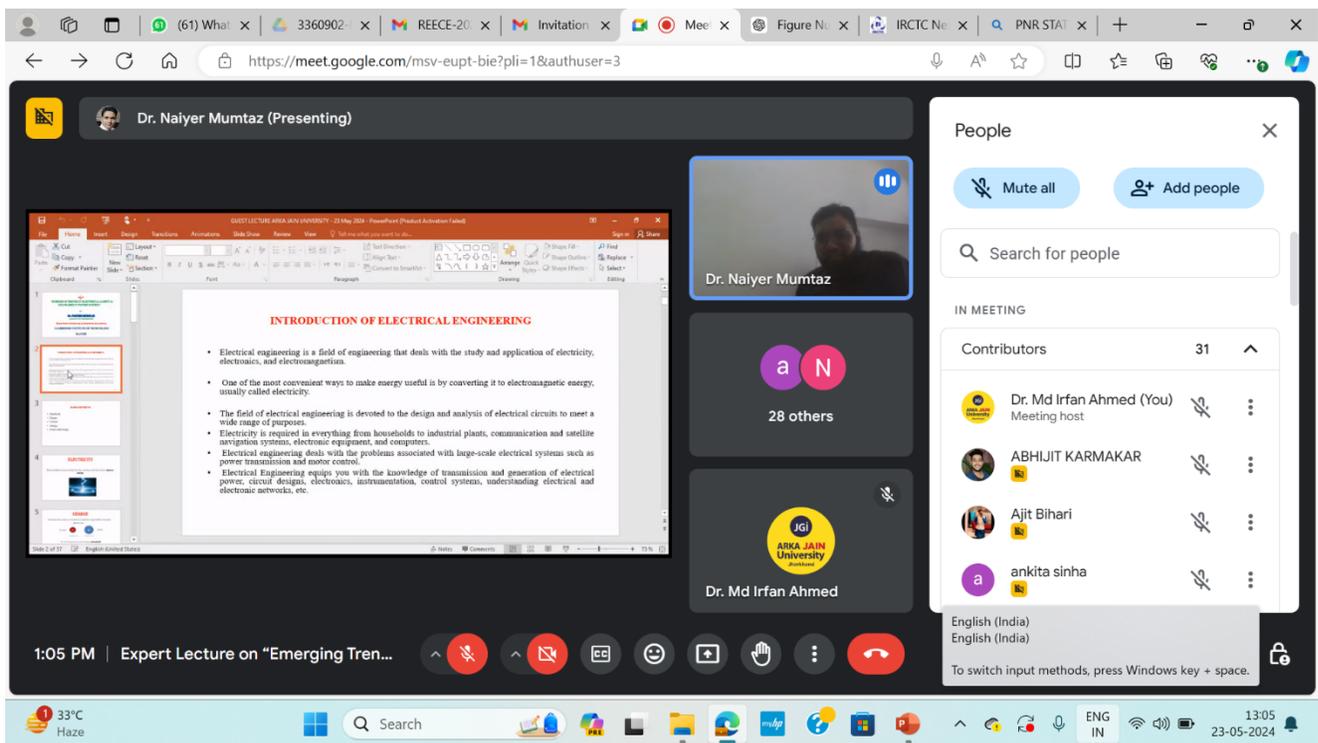
1800 - 1200 - 200

Poster of the Expert Lecture: Emerging Trends in Electrical Safety and Standards in Power Systems

# Photos of the Event



**Dr. Md Irfan Ahmed, the coordinator of the Expert Lecture event, has introduced the resource person**



**Resource Person "Dr. Naiyer Mumtaz" started the session**

**VOLTAGE**

Driving "force" of electrical current between two points

$V_{ab}$  Voltage at terminal a with respect to terminal b  
 $V_{ba}$  Voltage at terminal b with respect to terminal a  
 $V_{ab} = -V_{ba}$

Note: In a circuit, voltage is often defined relative to "ground"

1:18 PM | Expert Lecture on "Emerging Trend..."

**Resource person shared insights on the basics of electricals during the session**

**EMERGING TRENDS IN ELECTRICAL SAFETY**

1 Smart Grids

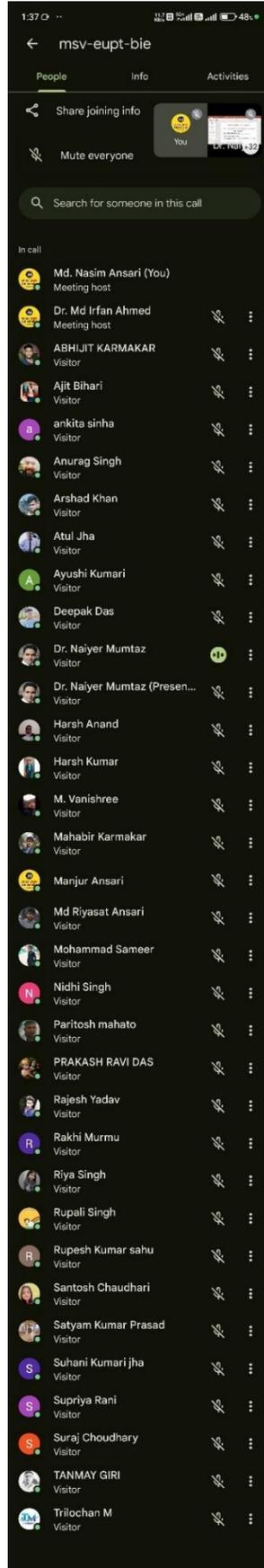
- One of the most significant trends in electrical engineering is the transition to smart grids, which are networks of power generation, transmission, distribution, and consumption that use digital technology and communication to enhance efficiency, reliability, and sustainability. Smart grids pose new challenges and opportunities for electrical safety and standards, as they require more complex and dynamic interactions among different components, systems, and stakeholders. Some of the key issues that you need to consider when working with smart grids are cybersecurity, interoperability, resilience, and data protection.

2 Arc Flash

- Another trend that affects electrical safety and standards is the increasing awareness and prevention of arc flash hazards. Arc flash is a phenomenon that occurs when an electric current leaves its intended path and travels through the air, creating a bright flash and a loud noise. Arc flash can cause severe injuries, fires, and equipment damage, especially in high-voltage environments. To prevent arc flash incidents, you need to follow the best practices and guidelines of the National Fire Protection Association (NFPA) 70E, which is the standard for electrical safety in the workplace. Some of the measures that you need to take include conducting arc flash risk assessments, wearing appropriate personal protective equipment (PPE), and implementing proper isolation and lockout/tagout procedures.

1:41 PM | Expert Lecture on "Emerging Trend..."

**Dr. Naiyer Mumtaz addressing the participants**



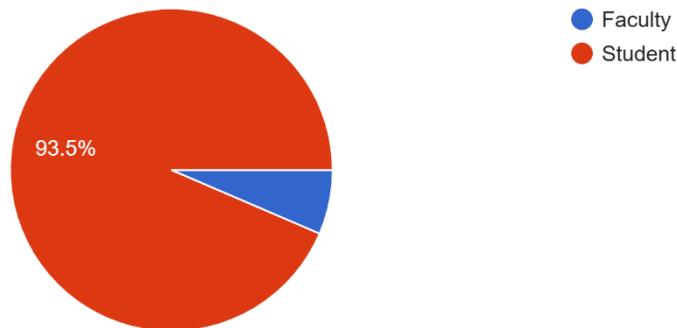
**Participants Attending the Session**

### Feedback Analysis

Student Feedback Analysis							
S. no	Description	Rating Scale					Total
		1	2	3	4	5	
1	I'm happy with the amount of information presented in today's sessions.	0	0	0	19	12	31
2	Did the event help you with new learnings or knowledge?	0	0	0	0	31	31
3	The duration of the event was just right. (Not too long or not too short)	0	0	2	20	9	31
4	Would you say the speakers or presenters were knowledgeable?	0	0	1	0	30	31
5	Overall, how satisfied were you with the event?	0	0	0	15	16	31

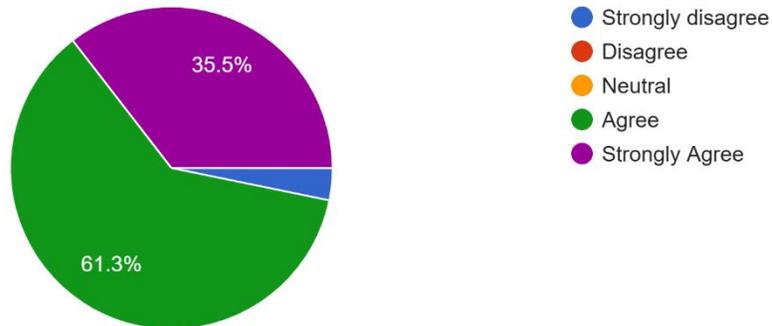
#### Category

31 responses



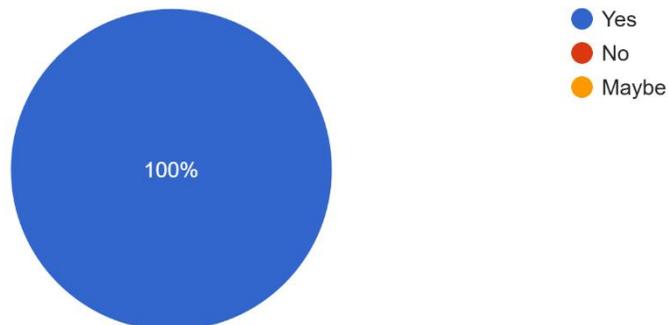
I'm happy with the amount of information presented in today's sessions.

31 responses



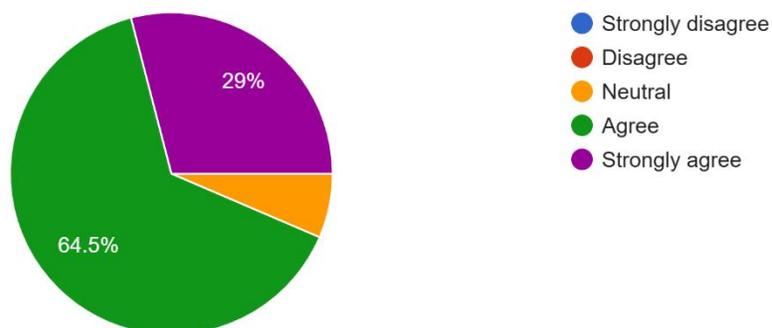
Did the event help you with new learnings or knowledge?

31 responses



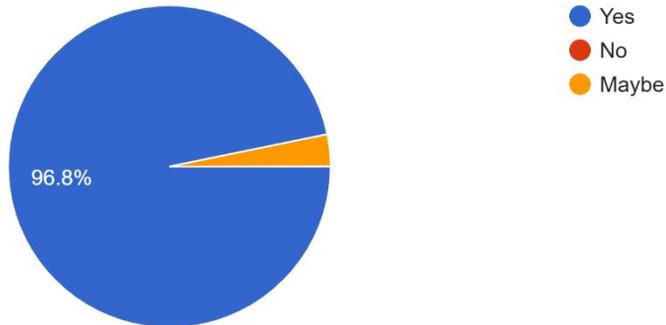
The duration of the event was just right. (Not too long or not too short)

31 responses



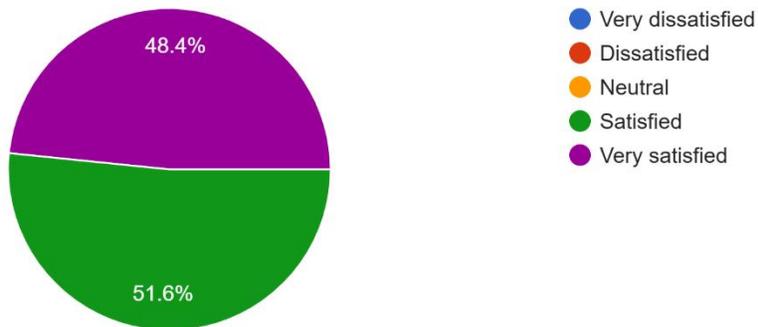
### Would you say the speakers or presenters were knowledgeable?

31 responses



### Overall, how satisfied were you with the event?

31 responses





### List of Participants

S.No	Program	Sem	Enrollment Number (Ex: AJU/123456) (for AJU only) for other: write NA	Name of the students/faculty	Institute	Name of Department	Email Address
1	Polytechnic	2nd	Aju/231185	Saurav Kumar	Arka Jain University	Mechanical Engineering	sauravkumar19202020@gmail.com
2	B.Tech	4 <sup>th</sup>	Aju/222117	Arshad Khan	Arka Jain University	EEE	ak3258528@gmail.com
3	Diploma	4 <sup>th</sup>	AJU/231048	Punam Choudhary	Arka Jain University	Mechanical Engineering	santoshpunam8210681284@gmail.com
4	Diploma	4 <sup>th</sup>	AJU/221759	Riya Singh	Arka Jain University	EEE	riyasingh43696@gmail.com
5	Diploma	4 <sup>th</sup>	Aju/221468	Kajal Soren	Arka Jain University	EEE	ksoren183@gmail.com
6	Diploma	4 <sup>th</sup>	AJU/220695	Sruti Mishra	Arka Jain University	EEE	sruti11c26@gmail.com
7	Diploma	4 <sup>th</sup>	AJU/220004	Ayushi Kumari	Arka Jain University	EEE	ayushikumari302003@gmail.com
8	B.Tech	4 <sup>th</sup>	AJU/222123	Kanit Irfan	Arka Jain University	EEE	kanitfan7062@gmail.com
9	Diploma	4 <sup>th</sup>	AJU/220567	Ankit Prasad	Arka Jain University	EEE	ankitprasad8409@gmail.com
10	Diploma	4 <sup>th</sup>	AJU/222250	Sonu Kumar	Arka Jain University	EEE	sonukumar1503200@gmail.com
11	Diploma	4 <sup>th</sup>	AJU/222203	Romi Kumar	Arka Jain University	EEE	romisoni441@gmail.com
12	Diploma	4 <sup>th</sup>	AJU/222139	Hitesh Kumar Tantubai	Arka Jain University	EEE	kumartantubaihitesh@gmail.com
13	Diploma	2 <sup>nd</sup>	AJU/232110	Harsh Anand	Arka Jain University	Mechanical Engineering	vka14061974@gmail.com

14	Diploma	4 <sup>th</sup>	AJU222148	Bipul Kumar Singh	Arka Jain University	EEE	1510bipulkumar@gmail.com
15	Diploma	4 <sup>th</sup>	AJU/222129	Rakhi Murmu	Arka Jain University	EEE	rakhimurmu981@gmail.com
16	B.Tech	2 <sup>nd</sup>	AJU/231532	Mohammad Yaqut	Arka Jain University	EEE	mohammadyaqut9122@gmail.com
17	B.Tech	2 <sup>nd</sup>	AJU/231072	Krishna Kumar Singh	Arka Jain University	EEE	krishnasingh76333@gmail.com
18	B.Tech	2 <sup>nd</sup>	AJU/230496	Deepa Kumari	Arka Jain University	EEE	deepakumari02004@gmail.com
19	B.Tech	2 <sup>nd</sup>	AJU/231833	Mamidi Vanishree	Arka Jain University	EEE	mamidivanishree@gmail.com
20	B.Tech	4 <sup>th</sup>	AJU/222109	Aashutosh Mishra	Arka Jain University	EEE	asumisra101@gmail.com
21	Diploma	2 <sup>nd</sup>	AJU/231281	Suraj Choudhary	Arka Jain University	Polytechnic	surajchoudhary9439@gmail.com
22	Diploma	2 <sup>nd</sup>	AJU/201329	Krishna Mandal	Arka Jain University	EEE	krishnamandal0996@gmail.com
23	Diploma	4 <sup>th</sup>	AJU/222235	Paritosh	Arka Jain University	EEE	paritosh860@gmail.com
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25	Diploma	4 <sup>th</sup>	220697	Suhani Kumari Jha	Arka Jain University	EEE	kumarijhasuhani@gmail.com
26	Diploma	4 <sup>th</sup>	AJU/220642	Gulshan Kumar	Arka Jain University	EEE	gulshanthakur52jsr@gmail.com
27	Diploma	4 <sup>th</sup>	AJU/220912	Rajesh Yadav	Arka Jain University	EEE	rajeshyadavmnts@gmail.com
28	B.Tech	6 <sup>th</sup>	AJU211795	Sangita Shekhar Deb	Arka Jain University	EEE	sangitashekhardeb@gmail.com
29	B.Tech	6 <sup>th</sup>	AJU/211076	Tanmay Giri	Arka Jain University	EEE	giritanmay456.jsr@gmail.com

30	Diploma	4 <sup>th</sup>	AJU/222252	Anurag Singh	Arka Jain University	EEE	asiwasalways.anurag@gmail.com
31	Diploma	4 <sup>th</sup>	AJU/222233	Abhishek Yadav	Arka Jain University	EEE	abhishekydvapcs@gmail.com
32	Diploma	4 <sup>th</sup>	AJU/222238	Abhijit Karmakar	Arka Jain University	EEE	karmakarabhijeet99@gmail.com
33	Diploma	2 <sup>nd</sup>	AJU/231739	Md Riyasat Ansari	Arka Jain University	Mechanical Engineering	riyasat1780@gmail.com
34	Diploma	2 <sup>nd</sup>	AJU/231243	Md Sameer	Arka Jain University	Mechanical Engineering	mohammadsameer6297@gmail.com
35	B.Tech	6 <sup>th</sup>	AJU/211805	Ankita Sinha	Arka Jain University	EEE	sinhaankita15008@gmail.com
36	Diploma	4 <sup>th</sup>	AJU/222134	Guddu Kumar Roy	Arka Jain University	EEE	guddukumarroy14@gmail.com