



# RajaRajeswari College of Engineering

(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)

Sponsored by: **MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST**



## Department of Electrical & Electronics Engineering

### Report on TECHNOXIAN 2023- World Robotics Championship

1. Type Event : TECHNOXIAN 2023-World Robotics Championship
2. Place of visit : New Delhi
3. Staff Co Ordinators : Dr. M. Karthikeyan,  
Professor and Head  
Department of Robotics and Automation  
RajaRajeswari College of Engineering  
  
Dr. Ebby Darney  
Professor and Head  
Department of Electrical and Electronics Engineering  
RajaRajeswari College of Engineering  
  
Dr. L. Rangaiah  
Professor and Head  
Department of Electronics and Communication Engineering  
RajaRajeswari College of Engineering  
  
Dr. C. Ramesh  
Professor and Head  
Department of Mechanical Engineering  
RajaRajeswari College of Engineering
4. Dates of the programme : 25<sup>th</sup> to 27<sup>th</sup> July 2023
5. Faculty members accompanied: Prof. Radhakrishna R K  
Assistant Professor  
Department of Mechanical Engineering  
RajaRajeswari College of Engineering  
  
Mr. Nizar Ahamed  
COMED KARES, Bengaluru
6. Students attended : 4<sup>th</sup> Semester students of EEE, R&A, ECE and ME
7. Event participated : Robo Race, Robo Soccer, and Line follower ROBO

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## Department of Electrical & Electronics Engineering

8. **International Robotics Council (IRC):** The only statutory body to manage and control TechnoXian robotics championships, was established in 2019. Headquartered in India, IRC is working with various global partners. It is the administrative body responsible for promoting TechnoXian Robotics Championships in the more than 3500 TX RoboClubs across 55+ countries. its full-time CEO and the Chairman is Mr. Raj Sharma. Its chairman is elected on a 3-year term and is currently held by Mr. Raj Sharma as an additional position until council elections happen. As well as being responsible for more than 110 full-time training and robotics competitions development officers working across, IRC is also involved in an advisory role and provides services in RoboClub Training, games development, finance, governance, infrastructural development, communications and marketing.

9. **TECHNOXIAN WORLD CUP 2023 SLOGAN:** “Technologies for a Better World” is the official motto of the TechnoXian World Robotics Championship 2023. The motto represents the power of the Technologies to overcome global challenges as a community and improve humankind's life. The words reflect the need for the world to work together towards developing and using advanced technologies for a better world, especially given the difficulties faced throughout the COVID-19 pandemic and learning from the mass destruction and global recession that happened due to the Ukrain-Rissia War.

10. **OBJECTIVES:** The Challenge is to design and build a robot competent to fight other robots in Battle. The competition is carried out in a tournament format in which the competitors bring their wireless robots ready to battle and are pitted against their competitor's robots in a one-one match where the aim is to cause maximum damage or to push the opponent's robot off the arena to score maximum points. The team scoring the maximum points wins the championship. The challenge has two participation categories as per the gross weight of the Robot.

### 11. THE OUTCOME OF THE PROGRAM:

Students gained information about the following:

1. Various types of Robots and their controllers.
2. Working with COBOT.
3. Various customized robots.
4. Various applications
5. New designs of the robots
6. The strength-to-weight ratio impact.
7. Creative thinking.
8. Interaction with the outside world.
9. Exposure to various types of competitions



## 12. PHOTO GALLERY

### Technician 2023- World Robotics Championship



Staff coordinator and students boarding the train from Bengaluru to New Delhi



Students during the train from Bengaluru to New Delhi



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**Department of Electrical & Electronics Engineering**



Faculty coordinator Prof. Radhakrishna R K, Dept of ME, RajaRajeswari College of Engineering and Mr. Nizar, COMED KARES, Bengaluru in the venue of TechnoXian 2023- World Robotics Championship

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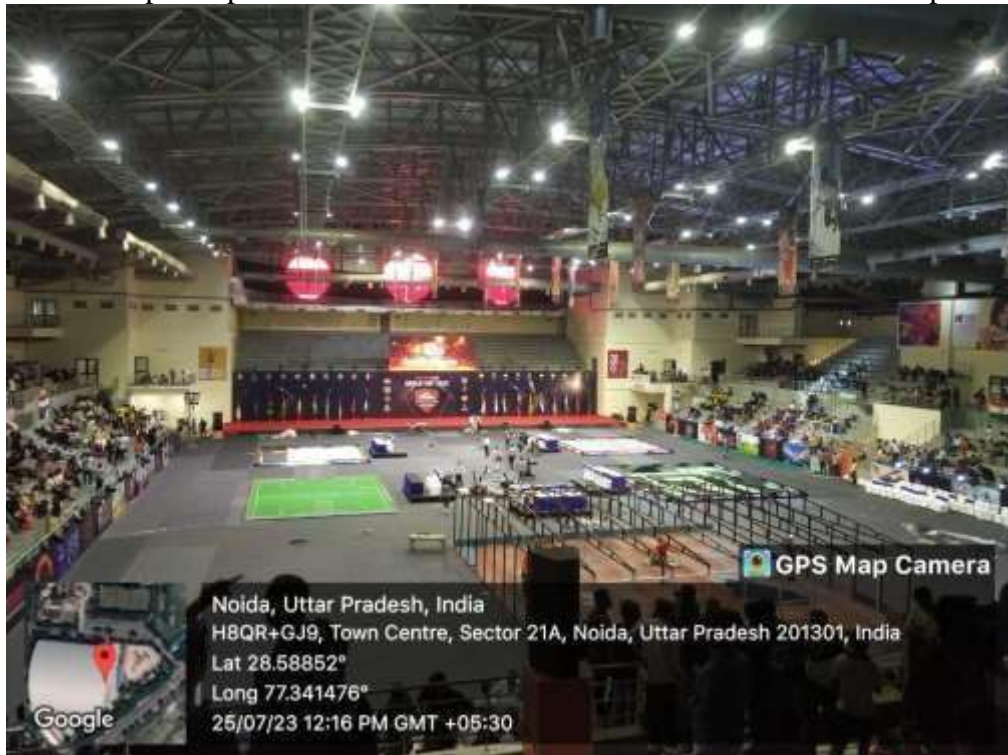
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## Department of Electrical & Electronics Engineering



53 countries participated in the TechnoXian 2023- World Robotics Championship



Venue of TechnoXian 2023- World Robotics Championship

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## Department of Electrical & Electronics Engineering



The Staff coordinator and students (Team A and B) registered for the TechnoXian 2023- World Robotics Championship



The staff coordinator and students (Team C) registered for the TechnoXian 2023- World Robotics Championship

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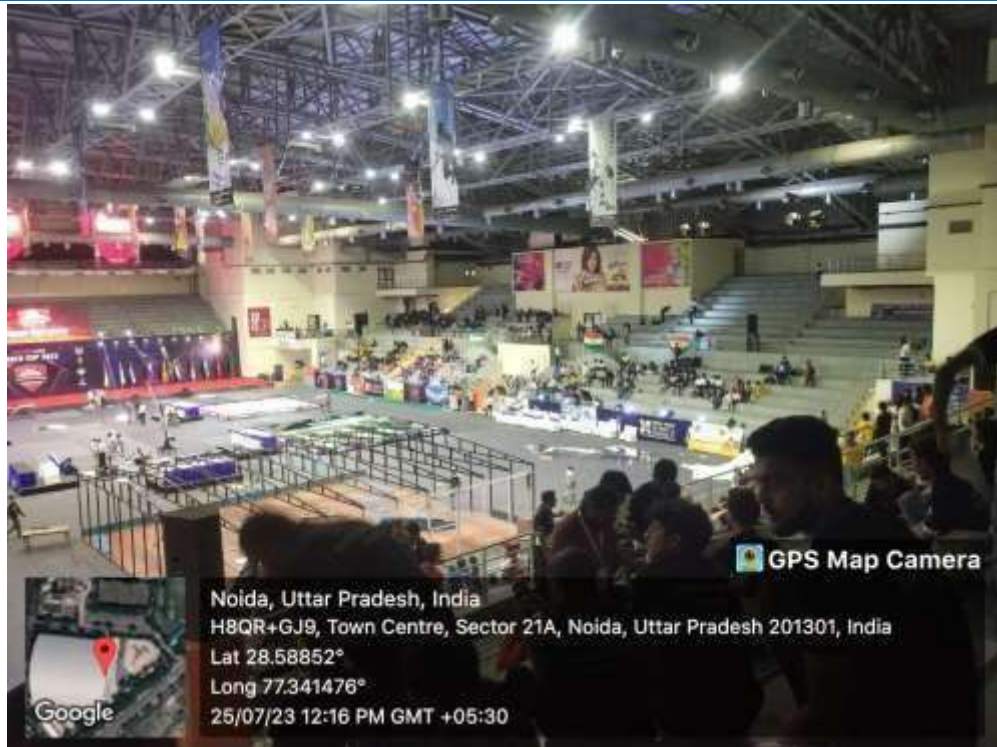
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## Department of Electrical & Electronics Engineering



Noida Indoor Stadium, New Delhi TechnoXian 2023- World Robotics Championship



Team A students participated in ROBO Soccer during TechnoXian 2023- World Robotics Championship

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## Department of Electrical & Electronics Engineering



Students participated in ROBO Race during TechnoXian 2023- World Robotics Championship



Students participated in ROBO Race during TechnoXian 2023- World Robotics Championship

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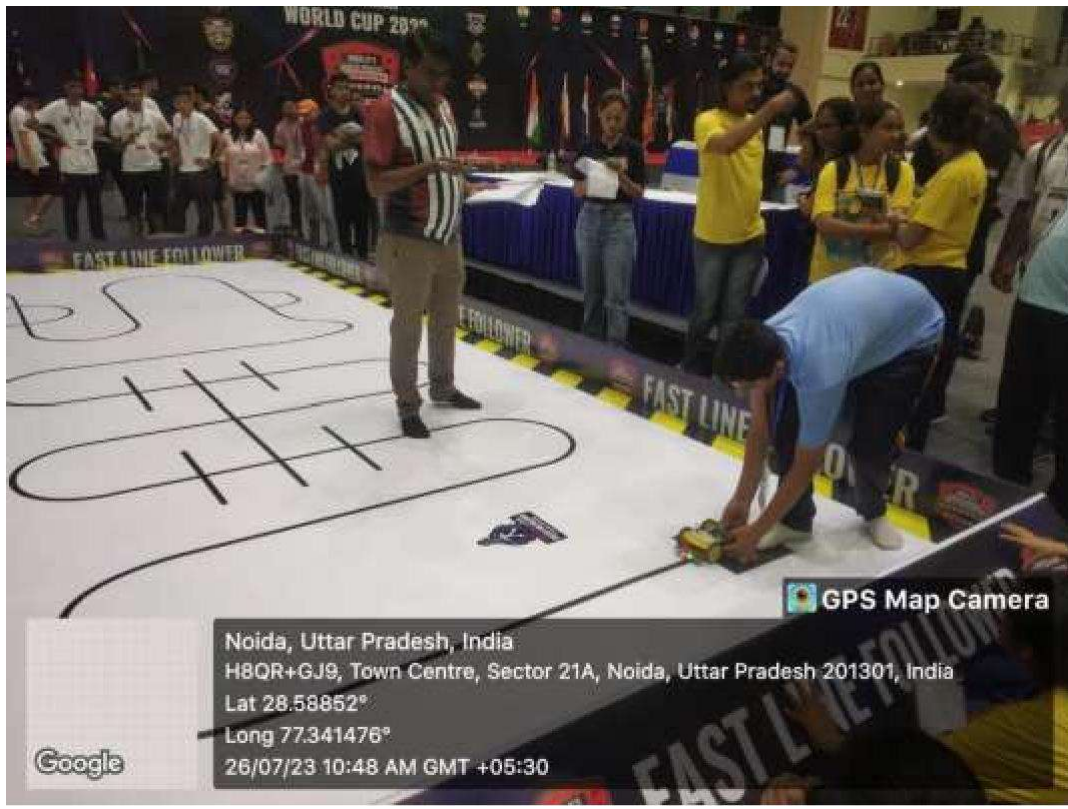
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Department of Electrical & Electronics Engineering



Students participated in ROBO SOCCER during TechnoXian 2023- World Robotics Championship



Students participated in Line follower ROBO during TechnoXian 2023- World Robotics Championship

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Department of Electrical & Electronics Engineering



Team A students with participation certificates of TechnoXian 2023- World Robotics Championship



Team B students with participation certificates of TechnoXian 2023- World Robotics Championship

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**Department of Electrical & Electronics Engineering**



Team A and B students with participation certificates of TechnoXian 2023- World Robotics Championship



Team C students with ROBOT TechnoXian 2023- World Robotics Championship

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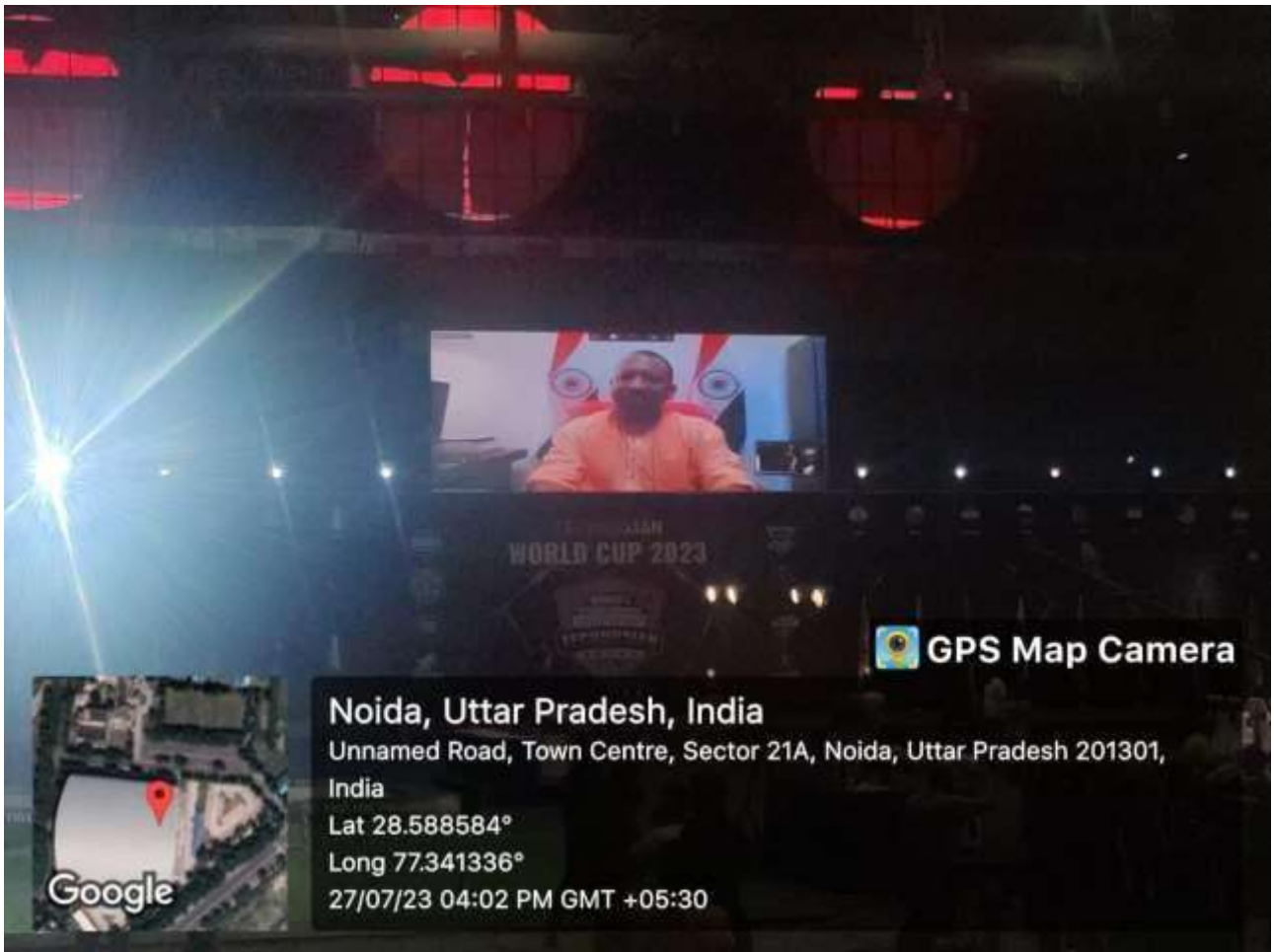
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Department of Electrical & Electronics Engineering



Mr. Yogi Adityanath, Chief Minister of Uttar Pradesh addresses the participants during the valedictory function of TechnoXian 2023- World Robotics Championship.

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## Department of Electrical & Electronics Engineering

List of students participated in  
“TECHNOXIAN WORLD ROBOTICS CHAMPIONSHIP”  
25<sup>th</sup> to 27<sup>th</sup> July 2023 at NEW DELHI.

S.No	Batch No	USN	Name of the Students	Department	Name of the Event Participating
1	1	1RR21RA017	Nithashree.L	Robotics and Automation	LINE FOLLOWER & ROBO-SOCCER
2		1RR21RA018	Nithya.B		
3		1RR21RA003	Bhumika.H.S		
4		1RR21EE003	B.Pavan	Electrical and Electronics Engineering	
5		1RR21ME003	Dorechandra.R	Mechanical Engineering	
6		1RR21EC107	Abdul Khadeer Khan	Electronic and Communication Engineering	
7		1RR21EC083	Suman Taj		
8	2	1RR21RA020	Suhas S Vasishta	Robotics and Automation	ROBO-RACE & ROBO-SOCCER
9		1RR21RA014	Mohan M K		
10		1RR21RA002	Balasaravana S		
11		1RR21RA015	Naveen Kumar S N		
12		1RR21RA005	Devaraju		
13		1RR21RA011	Lohith M R		
14		1RR21RA401	Veugopal P		
15	3	1RR21RA019	Samvrudh N	Robotics and Automation	ROBO-RACE & ROBO-SOCCER
16		1RR21RA012	Mohammed Haroon Khan		
17		1RR21RA022	Viha Trupthi S Pandit		
18		1RR21RA008	Hemanth K		
19		1RR21EE010	Pooja		
20		1RR21EE005	Mohammed Kaif	Electrical and Electronics Engineering	
21	1RR21EE009	Jyothsna			

**Dr. P Ebby Darney**  
**HOD-EEE**

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## Department of Electrical & Electronics Engineering

### - Valedictory Function on 03/08/2023

The valedictory function was arranged for the students who participated in the “TECHNOXIAN WORLD ROBOTICS CHAMPIONSHIP.”

The function started at 3 pm in the Mechanical Seminar Hall. All 21 students gathered at the venue. Also, the first-year Robotics and Automation department students assembled for the session. Prof. Radhakrishna R K, Department of Mechanical Engineering, welcomed all the guests and the students.

Dr. Karthikeyan M, HoD, Dept. of Robotics and Automation, gave the welcome speech.

The Principal, Dr. Balakrishna R, addressed the gathering and motivated the students for upcoming events. Dr. Ramesh C, HoD-ME, Dr. Rangaiah. L, HoD-ECE, department briefed about the importance of fundamentals while creating the robots and asked the students to take the help of the faculties for the upcoming events. Also, Prof. Shivalingaih from the Department of Electrical and Electronics Engineering motivated the students and congratulated them..

The team leads of the events participated and shared their experience with the students of the other departments.

The Photographs of the events are shown below.



Dr. M.Karthikeyan, HoD-RA, Welcomed the gathering.

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Dr. Balakrishna R, Principal addressed the students and motivated the students.



Dr. Rangaiah L, HOD-ECE addressed the students with respect to the fundamentals of mechatronics and the importance of electronic devices.

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**Department of Electrical & Electronics Engineering**



Participants are honored with certificates by the HOD's.



Participants are honored with certificates by the HODs and staff coordinator

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## Department of Electrical & Electronics Engineering



Students demonstrated the Robots



Participants share their experiences about the World Robotics Championship Technoxian 2023 to the gathering

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## Department of Electrical & Electronics Engineering



Participants share their experiences about the World Robotics Championship Technoxian 2023 to the gathering.



Participants share their experiences about the World Robotics Championship Technoxian 2023 to the gathering

Dr. Ramesh C, HOD, Department of Mechanical Engineering, gave away the vote of thanks, and the function concluded with refreshments.

**Dr. P Ebby Darney**  
HOD-EEE

**Dr.R.Balakrishna**  
Principal

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**TECHNOXIAN**  
WORLD ROBOTICS CHAMPIONSHIP



# CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

*Pooja H Patel*

for his/her successful participation in  
*RoboSoccer* challenge of  
TechnoXian, held at Noida Indoor Stadium Complex, Noida NCR (INDIA)  
from 25<sup>th</sup> -27<sup>th</sup> July, 2023



WRC9595462630

VICE PRESIDENT - AICRA

CEO-TECHNOXIAN



**TECHNOXIAN**  
WORLD ROBOTICS CHAMPIONSHIP



# CERTIFICATE

OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

*Jyothsna Ram P*

for his/her successful participation in

*Sr. Robo Race* challenge of

TechnoXian, held at Noida Indoor Stadium Complex, Noida NCR (INDIA)

from 25<sup>th</sup> -27<sup>th</sup> July, 2023



WRC8968632634

VICE PRESIDENT - AICRA

CEO-TECHNOXIAN



# CERTIFICATE

## OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

*Mohammad Kaif*

for his/her successful participation in

*Sr.Robo Race* challenge of

TechnoXian, held at Noida Indoor Stadium Complex, Noida NCR (INDIA)  
from 25<sup>th</sup> -27<sup>th</sup> July, 2023



WRC8968632634

*Paaldeva*

VICE PRESIDENT - AICRA

*[Signature]*

CEO-TECHNOXIAN



# CERTIFICATE

## OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

*B Pavan*

for his/her successful participation in  
Fastest Line Follower challenge of  
TechnoXian, held at Noida Indoor Stadium Complex, Noida NCR (INDIA)  
from 25<sup>th</sup> -27<sup>th</sup> July, 2023



wrc1562662655

VICE PRESIDENT - AICRA

CEO-TECHNOXIAN



**TECHNOXIAN**  
WORLD ROBOTICS CHAMPIONSHIP



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WRC9595462630

*Paaldeva*

VICE PRESIDENT - AICRA

*Paaldeva*

CEO-TECHNOXIAN



**TECHNOXIAN**  
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from 25<sup>th</sup> -27<sup>th</sup> July, 2023



wrc1120212651

*[Signature]*  
VICE PRESIDENT - AICTE

*[Signature]*  
CEO-TECHNOXIAN