ARMY INSTITUTE OF TECHNOLOGY

CENTER OF EXCELLENCE FOR AI AND ROBOTICS

VISION: To become a leading learning center for Artificial Intelligence and Robotics by providing a conducive environment with transferring engineering knowledge, inculcating creative thinking, and generating passion for doing it yourself approach which will make them Industry ready.

MISSION:
- Provide students the knowledge that makes them professional engineers, inculcate within, a solid base in mechatronics engineering, analytical and rational skills, for making them future leaders.
- Develop an accomplished human resources with an aptitude for entrepreneurship capabilities, team spirit and novel approach for their professional careers with lifelong learners.
- Impart quality learning culture to students to promote high standards of professional ethics, transparency, and accountability.

Academic Year	:	**2022-23**
Name of Faculty IC	:	**Avinash Patil**
Name of Secretory	:	**1. Kapil Kharita 2. Priyanka Nikam**
Budget Allocated by Institute	:	14,00,000
Sponsorship Received	:	--
Events Conducted	:	12

S.No	Name of Event	Details of Events	No. of Participants	Remarks	Photo of Event with Caption
1.	**First Year Induction**	The club induction was conducted in Manekshaw Hall, where the First Year students where demonstrated the projects and functioning of	All First Year Students	Ideation - An Idea pitching round, where First Years gave their Ideas for new projects	

		club.			
2	**IIT Guwahati Esaclade**	Participated in theme based robotics competition : Tube Climbing Robot	1.Vikas Saran SE ENTC 2.Shubham Tiwari SE ENTC	Third Runner up	
3	**E-Yantra**	Every Year students of CEAR Club Participate in different themes of E-Yantra	1.Aditi More 2.Shubham Tiwari 3. Rahul Chaudhary 4. Birendra Mohapatra	Participated and qualified for the Second round	
4	**3D Printing Workshop**	This 3D printing workshop was conducted by the TE Member of the club Harshdeep (TE MECH) and the club students where encouraged for the 3D Printing and modelling.	1. Abhi Sirohi FE ENTC 2. Mehermeet FE ENTC 3. Surendra FE MECH 4. Nikita FE ENTC 5. Unnati FE ENTC Along with these students there where 30 more participants.	This was a club event, which was proposed for the club students.	

5	**IIT Bombay Techfest**	Students of the club participated in Meshmerize and cozmo clench event in IIT Bombay Techfest with 2 different bots of line tracer and pick and place bot.	1. Kapil Kharita [TE ENTC] 2. Ankit [TE ENTC] 3. Deepak [TE ENTC] 4. Harshdeep [TE MECH]	Participated and learned from the experience the team got in the IIT Bombay Techfest	
6	**WarTech**	Technical Event held in Solutions (Inter college technical fest of AIT)	Managed by team of CEAR Club Under the Guidance of Faculty IC.		
7.	**Use The Pins Wisely**	Workshop on arduino And esp32 Microcontroller for First year and Second Year Students	Attended by 48 First year Students and 27 Second Year Students	120 Students in batch of 40 each attended the workshop	
8	**Robocon 2022-23**	Asia Level Robotics Theme Based Robotics Competition **ABU ROBOCON Combodia**	Team of 68 Students Participate and share their knowledge to compete at national level	Short-listed for First round of CAD model submission.	

9.	**Projects Based Learning**	**Projects:** 1. **Robotic Arm** 2. **Pick and Place Bot** 3. **Line Tracer** 4. **Robo Soccer Bot**	1. Kapil TE ENTC 2. Ankit TE ENTC 3. Harshdeep TE MECH	All projects are working completed in the tenure	
10.	**BITS QUARK**	Participated in technical event of **Bits Goa**	1. Rahul Chaudhary 2. Avinash Puniya 3. Birendra Mohapatra	Second Runner Up in Pick and Place Competition	
11	**Robotic Newsletter**	Monthly news related to Robotics technology and club activities	1. Aditi More 2. Niraj	--	--
12	**Robotics Website**	College CEAR website, in development stage.	1. Ronak SE E&TC 2. Nepal Singh 3. Tanishk 4. Tushar	--	--