SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
An Autonomous Institution| Approved by AICTE| Affiliated to Anna University
Kuniamuthur, Coimbatore - 641008

DEPARTMENT OF MECHATRONICS ENGINEERING

ROBOTICS CLUB

About the Club

The Robotics Club is a vibrant community for students passionate about the field of robotics and unmanned systems. Our mission is to provide comprehensive training and hands-on experience in both hardware and software aspects of robotics and drone technology. We aim to inspire innovation and support our members from the initial idea stage through to the product development phase.

Mission

Our mission is to:

- Foster a deep understanding of robotics and drone technology through hands-on training.
- Encourage innovative thinking and problem-solving skills.
- Support the transformation of ideas into tangible products.
- Connect members with industry professionals and provide career development opportunities.

Vision

We envision a community where students are empowered to explore and innovate in the field of robotics and drone technology, contributing to advancements and applications that benefit society.

Activities

Training Programs:

- Our training programs cover a broad range of topics, including circuit design, sensor integration, microcontroller programming, and robotics algorithms. We emphasize hands-on learning to ensure members gain practical experience.

Drone Assembly and Flying:

- Members learn to build drones from scratch, understanding each component's role. We provide comprehensive training on flying techniques, safety protocols, and navigation.

Activities

Hackathons and Projects:

- Regular hackathons and projects offer members the chance to work in teams, tackle real-world challenges, and develop innovative solutions. These activities promote teamwork, creativity, and practical application of theoretical knowledge.

Product Development:

- We support entrepreneurial spirit by guiding members through the product development process. From refining concepts to constructing prototypes and conducting market analysis, we provide mentorship at every stage.

Benefits

Joining the Robotics Club offers numerous benefits:

- **Skill Enhancement:** Gain hands-on experience and deepen your knowledge in robotics and drone technology.
- **Networking Opportunities:** Connect with like-minded peers, industry professionals, and potential collaborators.
- **Practical Application:** Apply theoretical knowledge to real-world scenarios, boosting problem-solving skills and confidence.
- **Career Development:** Access guidance, resources, and opportunities for careers in the robotics and drone industry.

Rules and Regulations

To ensure a safe, productive, and collaborative environment, the Robotics Club has established the following rules and regulations. All members are expected to adhere to these guidelines to maintain the integrity and success of the club

Conduct

Respect: Members must treat each other with respect and courtesy at all times.

Safety: Safety protocols must be followed during all hands-on activities, including drone flying and hardware assembly. Members must wear appropriate safety gear and handle equipment responsibly.

Collaboration: Teamwork and cooperation are encouraged. Members should work collaboratively and support one another.

Academic Integrity: All work submitted for projects and competitions must be original and free from plagiarism.

Meetings and Events

Attendance: Members are expected to attend regular meetings and events. If unable to attend, members should notify the club officers in advance.

Punctuality: Members should arrive on time for meetings and events.

Preparation: Members should come prepared for meetings and training sessions, having completed any assigned tasks or readings.

Equipment and Resources

Usage: Club equipment and resources must be used responsibly and for club-related activities only.

Maintenance: Members are responsible for maintaining and properly storing equipment after use.

Reporting: Any damaged or malfunctioning equipment must be reported to a club officer immediately.

Projects and Competitions

Participation: Members are encouraged to participate in club projects and competitions. Participation should be collaborative and contribute to the team's success.

Commitment: Members involved in projects or competitions must commit to the necessary time and effort to ensure completion and success.

Ethics: All projects and competition entries must adhere to ethical standards and competition rules.

Code of Conduct Violations

Reporting: Any violations of the club's rules and regulations should be reported to a club officer.

Consequences: Violations of the code of conduct may result in disciplinary action, including suspension or termination of membership.

Amendments

Code of Conduct Violations

Review: These rules and regulations will be reviewed periodically by the club officers.

Changes: Any changes to the rules and regulations will be communicated to all members in a timely manner.

By joining the Robotics Club, members agree to abide by these rules and regulations. These guidelines are in place to ensure a positive and productive environment where all members can learn, innovate, and succeed

CONTACT

FACULTY MENTOR

Name: Vignesh T
Phone Number: 8124811733
Email ID: vignesht@skcet.ac.in

STUDENT COORDINATORS

Name: Abhinandhan G
Phone Number: 8220623027
Email ID: 727721eumt003@skcet.ac.in

Name: Miruthula R
Phone Number: 7604976607
Email ID: 727721eumt059@skcet.ac.in

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S.No.	Date	DESCRIPTION	No of Participants	Pg.No.
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Three days Summer Camp on 3D Printing and Robotics

DATE

22.5.2024 - 24.5.2024

LOCATION

Advanced Automation Lab, MCT, SKCET

FACULTY MEMBERS

Mr S Paneerselvam, Assistant Professor/MCT
Ms R Priyadharshini, Assistant Professor/MCT
Dr G Veerapan, Associate Professor/MCT
Mr T Vignesh, Assistant Professor/MCT

EVENT OUTCOME

- **Enhanced Understanding of Robotics.**
- **Introduction to Microcontrollers and Arduino.**
- **Practical Skills in Arduino and TinkerCAD.**

Three days Summer Camp on 3D Printing and Robotics

Three days Summer Camp on 3D Printing and Robotics

Entrepreneurial Endeavors in Robotics and ROS

DATE

16.05.2024 - 17.05.2024

LOCATION

Advanced Automation Lab, MCT, SKCET

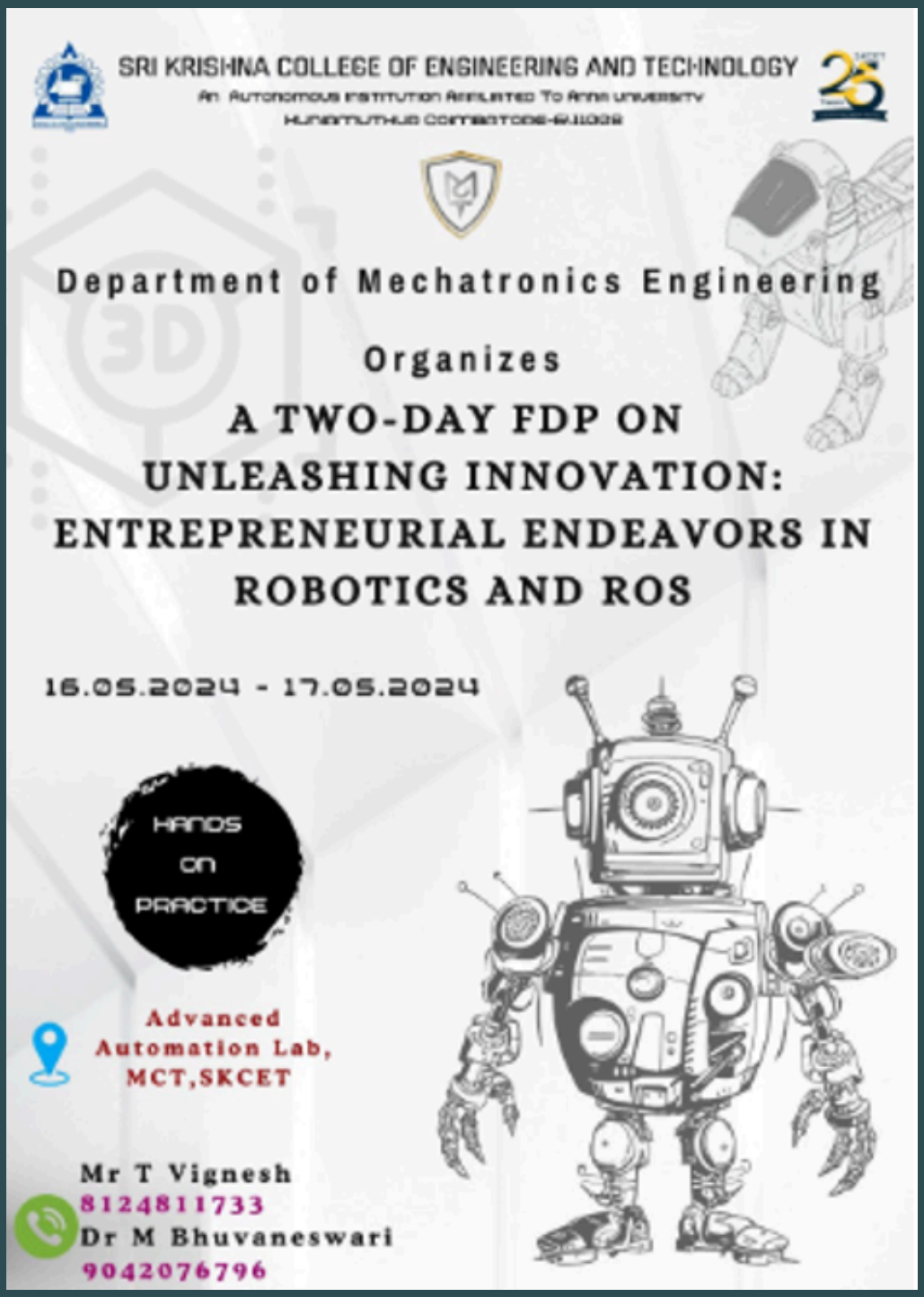
RESOURCE PERSONS

Mr. Yenikapati Tatwik
Co-founder of Anya Robotics
Mr. Manojkumar
Co-founder of Anya Robotics

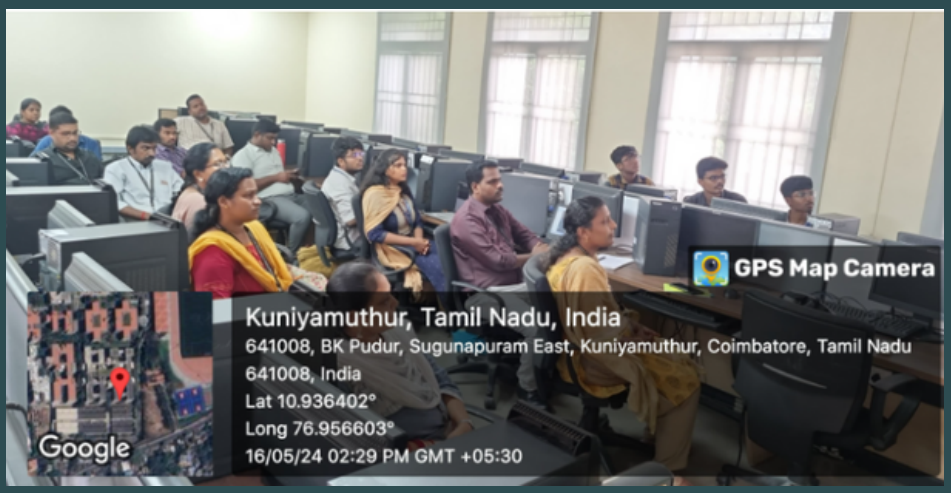
EVENT OUTCOME

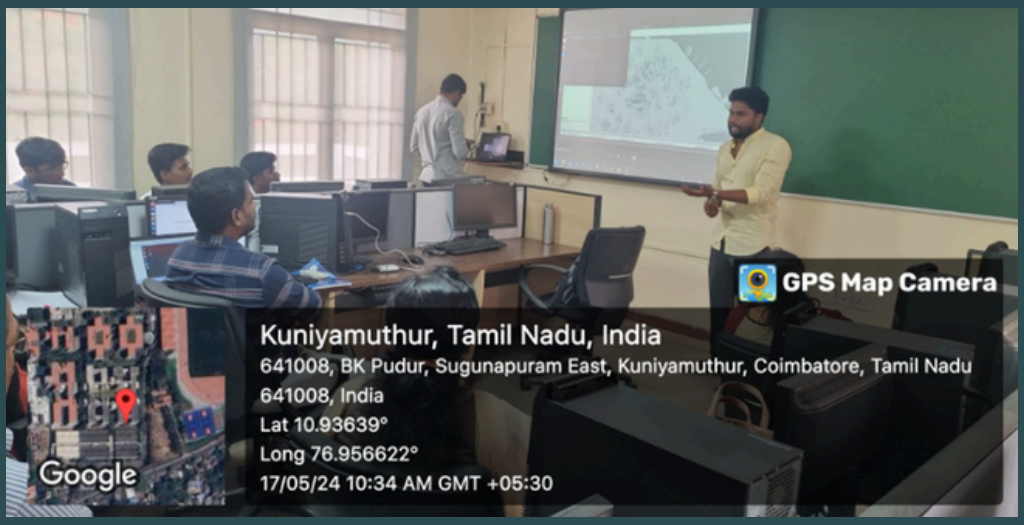
- **Enhanced understanding of ROS and its applications.**
- **Practical experience using ROS tools for robot simulation.**
- **Inspiration to explore entrepreneurial endeavors in robotics technology.**

Entrepreneurial Endeavors in Robotics and ROS



Entrepreneurial Endeavors in Robotics and ROS





Four days Hands-on Workshop on UAVs

DATE

11.3.2024 - 14.3.2024

LOCATION

SMI lab, MCT, SKCET

FACULTY MEMBERS

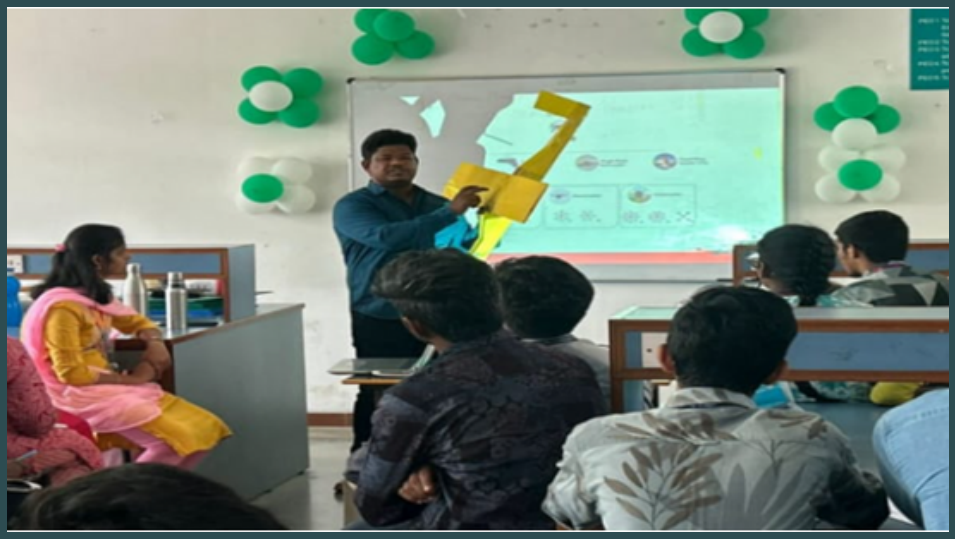
Mr. Yuvaraj
Aerospace Professional
Skyrider Aero Solution, Chennai
Mr. Sam
Expert in Aeronautical Solutions
Skyrider Aero Solution, Chennai

EVENT OUTCOME

- **The workshop significantly enhanced students technical skills in UAV assembly, programming, calibration, and flying.**
- **Theoretical and Practical Knowledge bridged the gap between theoretical knowledge and practical application, providing a robust foundation in UAV and RC plane technologies.**

Four days Hands-on Workshop on UAVs

Four days Hands-on Workshop on UAVs



e - YANTRA LAB INAUGURATION

DATE

16.02.2024

LOCATION

SMI lab, MCT, SKCET

FACULTY MEMBERS

Prof. Kavi Arya,
Professor, Principal Investigator, e – Yantra,
CSE Department, IIT Bombay
Dr. J. Janet,
Principal, SKCET

EVENT OUTCOME

- e - Yantra is a robotics outreach program funded by the Ministry of Education and hosted at IIT Bombay.
- e - Yantra Lab establishment enable 10 students and 4 faculty members to get trained in the field of Robotics and embedded systems.

e - YANTRA LAB INAUGURATION

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY

e yantra
Engineering a better tomorrow

DEPARTMENT OF MECHATRONICS ENGINEERING

Cordially invite you for the Inaugural of

SKCET - IIT Bombay
e - Yantra Laboratory

INAUGURATED BY

Dr.J.Janet

Principal

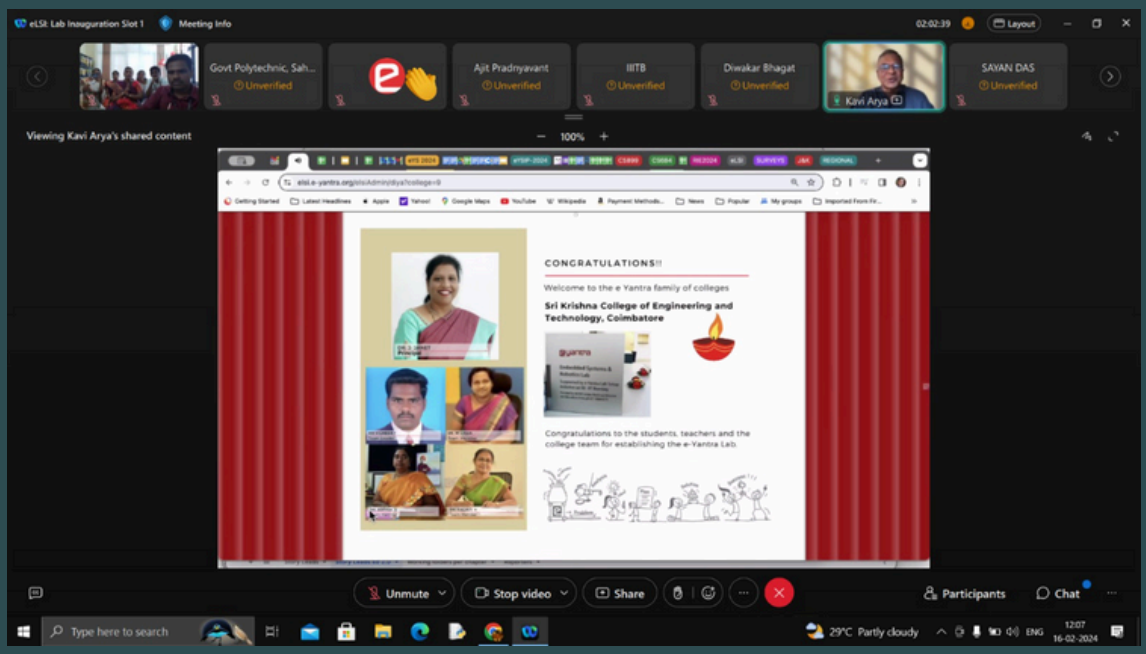
Prof.Kavi Arya

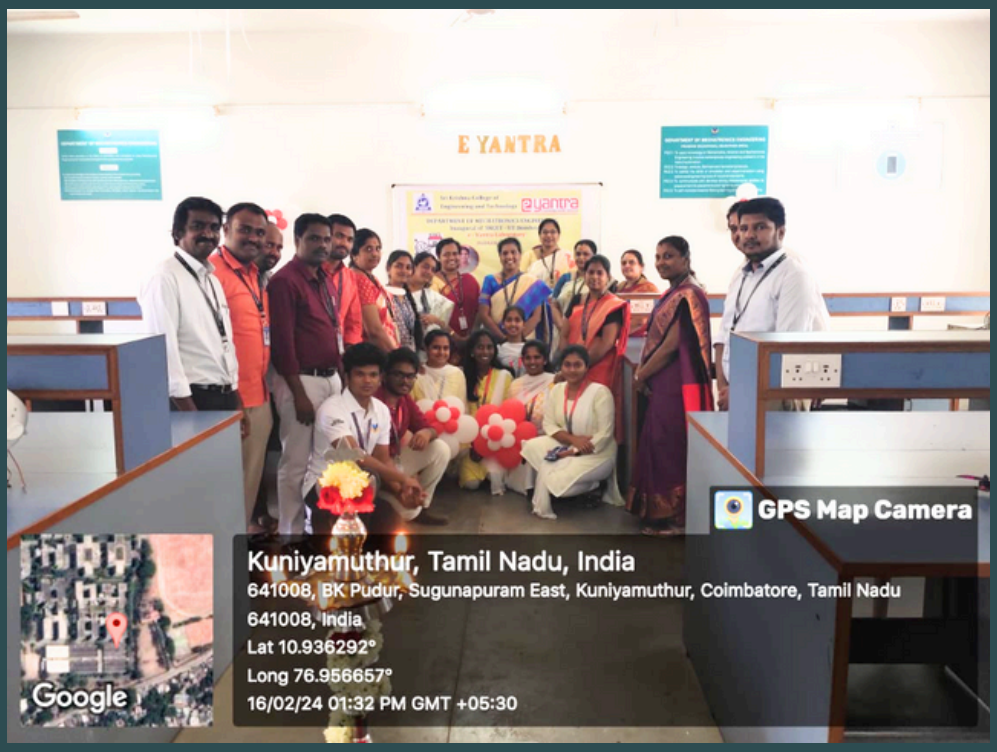
Professor, Principal Investigator, e - Yantra
CSE Department, IIT Bombay

Friday, 16 February 2024, 11:00am,
SMI Laboratory, SKCET

e - YANTRA LAB INAUGURATION

e - YANTRA LAB INAUGURATION





Preparing the Next Generation of Innovators & Creators in Immersive Technologies (AR & VR)

DATE

07.02.2024

LOCATION

MCT Conference Hall, SKCET

RESOURCE PERSON

Visweswaran J,
Country Manager,
ARK Infosolutions Bangalore

EVENT OUTCOME

- **Introduction to Immersive technologies.**
- **Current and Future Needs of AR/VR.**
- **Industry Needs.**
- **Demo of VR**

Preparing the Next Generation of Innovators & Creators in Immersive Technologies (AR & VR)

EMPOWERING EDUCATORS: AI in Robotics and Automation

DATE

4.12.2023 - 8.12.2023

LOCATION

Google Meet (Online Mode)

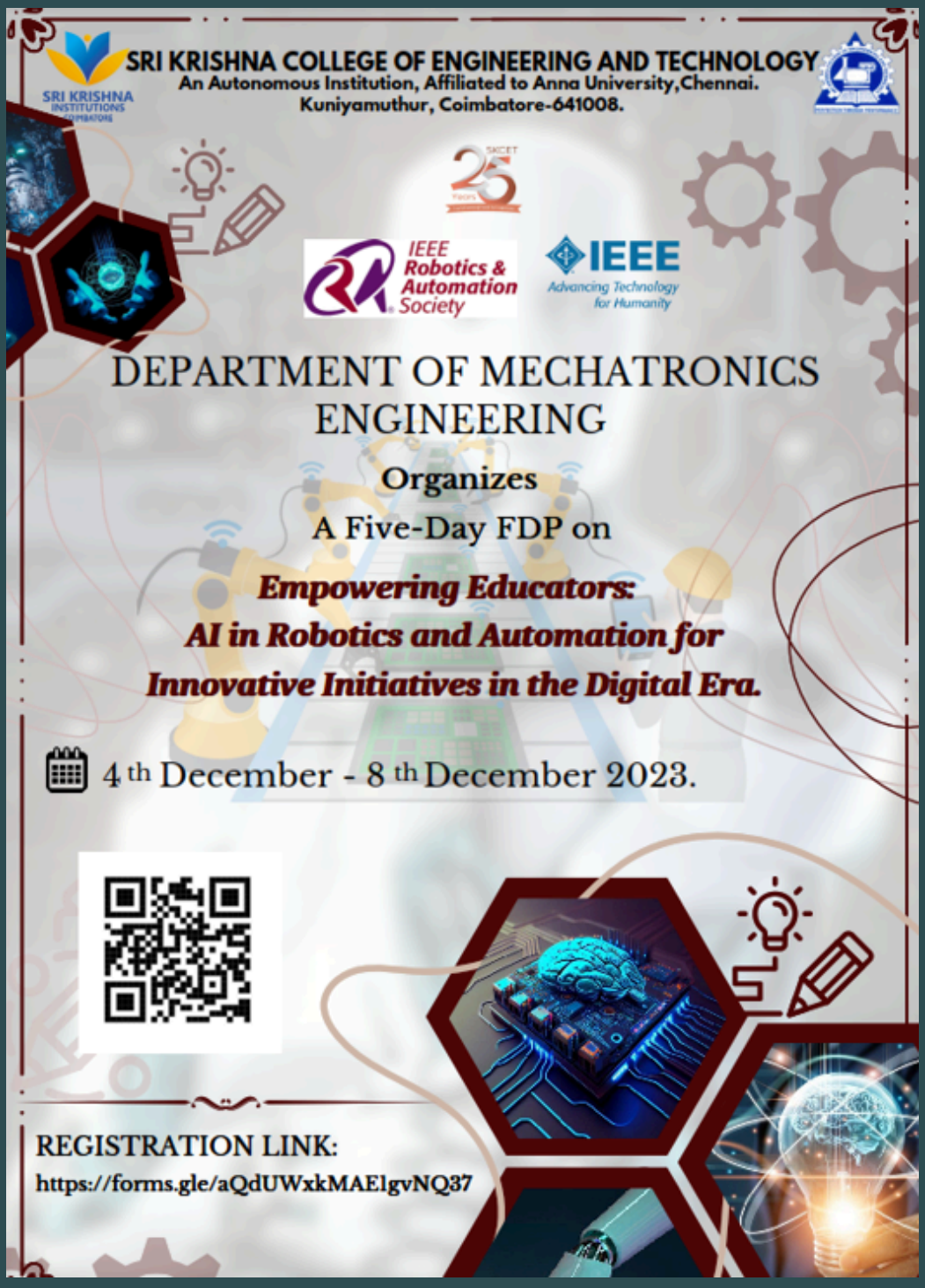
RESOURCE PERSONS

Dr. Jose Immanuel R
Department of Mechanical Engineering
IIT Bhilai, Chattisgarh, India
Dr. Ramya S Moorthy
Department of Mechatronics,
Manipal Institute of Technology,
Manipal
Dr. T Mohanraj
Department of Mechanical Engineering,
Amrita School of Engineering,
Coimbatore
Dr. Santhakumar Mohan
Department of Mechanical Engineering,
IIT Palakad, Kerala
Mr. Justus Zachariah
Director of We-serve Life in Coimbatore
Ms. Shiby Justus
Director of We-serve Life in Coimbatore
Mr. Sriram Nagarajan
Roboram's Founder and CEO
Dr. R. Ramakrishnan
VIT University, Vellore
Dr. G Raam Dheep
Department of Robotics and Artificial Intelligence
Lovely Professional University, Punjab
Dr. Mangal Das
School of Electronics Engineering at VIT, Chennai

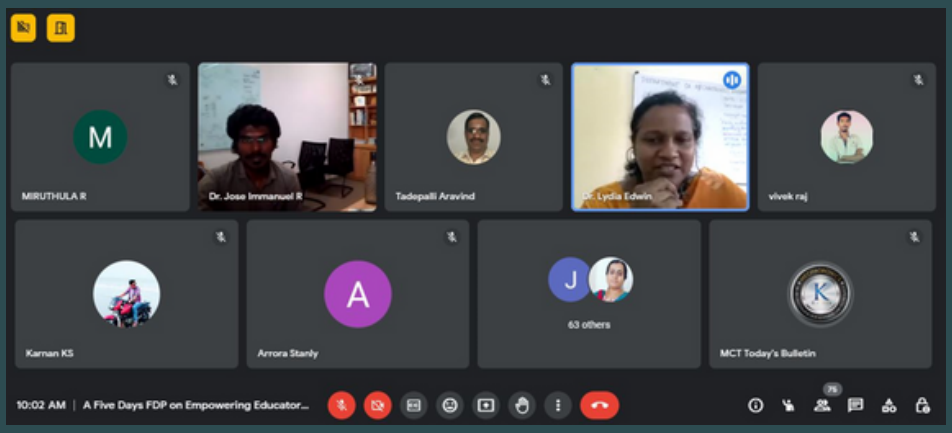
EVENT OUTCOME

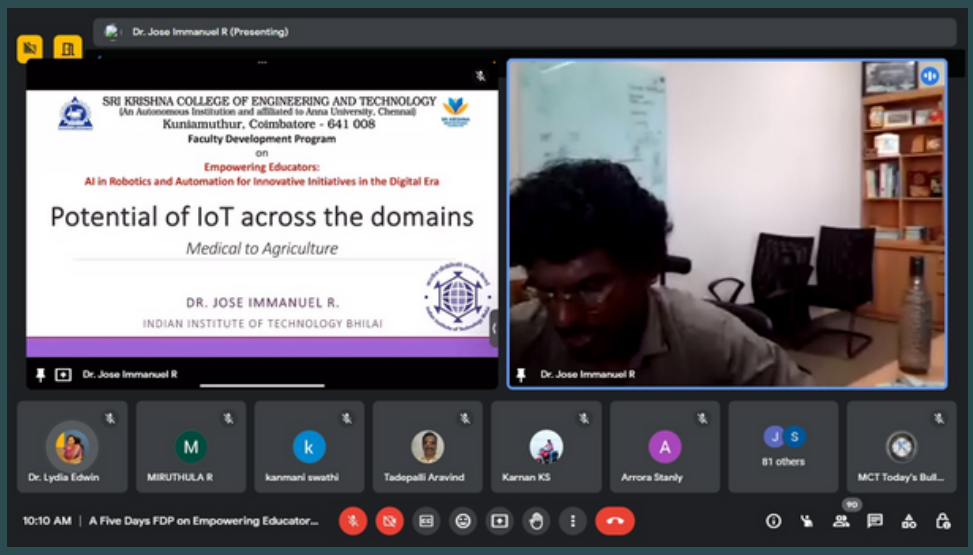
- **Educators will improve their knowledge and skills in AI basics, robotics, and automation technologies, as well as acquire practical experience with AI-powered products.**
- **Improved teaching methods by combining AI and automation with modern technology principles.**

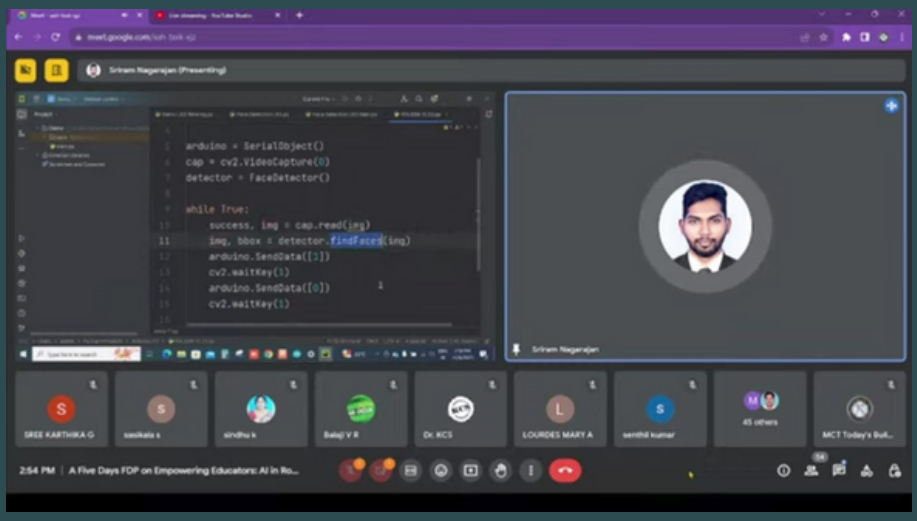
EMPOWERING EDUCATORS: AI in Robotics and Automation



EMPOWERING EDUCATORS: AI in Robotics and Automation







Outreach Activity for School Students

DATE

17.08.2023

LOCATION

Government Girls Higher Secondary School, Thondamuthur, Coimbatore

FACULTY MEMBERS

Mr. T. Vignesh Assistant Professor/MCT
Dr. N Mithran Associate Professor/MCT

EVENT OUTCOME

- **Around 200 school students actively participated in the event and our team was appreciated by the school head master and teachers for conducting such an eye opening session.**
- **Students enjoyed the hands on learning experience in Robotics,3D Printing, AR/VR**

Outreach Activity for School Students

INSTITUTION OF ENGINEERING AND TECHNOLOGY (IET)

DATE

15.10.2022

LOCATION

The Feather hostel, Chennai

FACULTY MEMBERS

Mr. S. Madhankumar Assistant Professor/MCT
Mr. T. Vignesh Assistant Professir/MCT

PARTICIPANTS

Nithesh Anand MS, Cheran R and Cibidharan P - II Year

EVENT OUTCOME

- **The students team was honoured with a prize amount of Rs.15000 and offered three months internship by the Nokia the connecting people at their Chennai plant.**

INSTITUTION OF ENGINEERING AND TECHNOLOGY (IET)

SMART INDIA HACKATHON - 22 (HARDWARE EDITION)

DATE

25.08.2022 - 29.08.2022

LOCATION

Galgotias University, Noida

FACULTY MEMBERS

Dr M. Lydia Head Of The Department/MCT
Mr T. Vignesh Assistant Professor/MCT

PARTICIPANTS

Team Hephaestus

Udayasri S III MCT A
Arul Murugan S III MCT A
Nellaiappan B III MCT B
Shannon Abishek S III MCT B
Tharun Kumar C III MCT
Vijeth R III MCT B

EVENT OUTCOME

First Prize: Rs. 100000

SMART INDIA HACKATHON - 22 (HARDWARE EDITION)

SMART INDIA HACKATHON - 22 (HARDWARE EDITION)

DATE

25.08.2022 - 29.08.2022

LOCATION

Galgotias University, Noida

FACULTY MEMBERS

T. Vignesh, Vignesh Ramkumar

PARTICIPANTS

Tech Mutants

Krishna Prasath III/MCT B
Vishnu Prakash III/MCT B
Neelash Kannan III/MCT B
Vishal III/MCT B
Haripriya III ECE A
Dheeraj A II MCTA

EVENT OUTCOME

Special Category

SMART INDIA HACKATHON - 22 (HARDWARE EDITION)

IDEATHON

DATE

27.07.2022

LOCATION

Sri Krishna College of Engineering and Technology, Coimbatore

FACULTY MEMBER

Mr T. Vignesh Assistant Professor/MCT

PARTICIPANTS

Vishnu Prakash - IV MCT
Vishal - IV MCT
Neelash Kannan - IV MCT

EVENT OUTCOME

Second Place

IDEATHON

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution)
Accredited By Naac With 'A' Grade, NBA(CSE , ECE, IT, MECH &MCT)
Affiliated To Anna University, Chennai
Kuniamuthur,Coimbatore - 641008.

CERTIFICATE OF ACHIEVEMENT

Scheme For Promoting Interests, Creativity and Ethics Among Students
AICTE SPONSORED SPICES HACK CLUB

VISHNU PRAKASH N IV MCT

has awarded with ~~I~~/II/~~III~~ Prize for exemplary performance in
IDEATHON 2k22
conducted by the Department of M.Tech Computer Science and Engineering & Department of Artificial Intelligence and Data Science, Sri Krishna College of Engineering and Technology, Coimbatore on 27th July 2022.

HoD/M.Tech CSE | HoD/AI & DS | PRINCIPAL

SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY
(An Autonomous Institution)
Accredited By Naac With 'A' Grade, NBA(CSE , ECE, IT, MECH &MCT)
Affiliated To Anna University, Chennai
Kuniamuthur,Coimbatore - 641008.

CERTIFICATE OF ACHIEVEMENT

Scheme For Promoting Interests, Creativity and Ethics Among Students
AICTE SPONSORED SPICES HACK CLUB

VISHAL S IV MCT

has awarded with ~~I~~/II/~~III~~ Prize for exemplary performance in
IDEATHON 2k22
conducted by the Department of M.Tech Computer Science and Engineering & Department of Artificial Intelligence and Data Science, Sri Krishna College of Engineering and Technology, Coimbatore on 27th July 2022.

HoD/M.Tech CSE | HoD/AI & DS | PRINCIPAL

IDEATHON

FIRE-BOLTT
NINJA CALL 2
1.7" (43mm)
Bluetooth Calling
Idea/Approach Details

PAPER PRESENTATION

DATE

15.04.2022

LOCATION

Eswari Engineering College

FACULTY MEMBER

Mr T. Vignesh Assistant Professor/MCT

PARTICIPANTS

Nithis Anand and Hariharan - II MCT

EVENT OUTCOME

- **Paper topic: Digital twin to predict the machine failure.**
- **Got first prize in the paper presentation event at SRM University**

PAPER PRESENTATION

pragyotsav 2022

EASWARI ENGINEERING COLLEGE
(AUTONOMOUS)

APPROVED BY GOVT. OF TAMILNADU AND AICTE
AFFILIATED TO ANNA UNIVERSITY | ACCREDITED BY NBA | ACCREDITED WITH 'A' GRADE BY NAAC
ISO 9001:2015 CERTIFIED | 2(f) & 12(B) STATUS (UGC) | FIST FUNDED (DST) | DBT-BIC (DBT)

Certificate

OF PARTICIPATION

This is to certify that Mr. /~~Ms.~~ NITESH ANANDH M.S OF SRI KRISHNA COLLEGE OF ENGINEERING

has ~~participated~~/won I^st place in TECHNICAL PAPER PRESENTATION

conducted as a part of Pragyotsav 2022: A National Level Technical Fest

PRINCIPAL | FACULTY COORDINATOR | FACULTY COORDINATOR | HEAD OF THE DEPARTMENT

Hackathon: AI For Social Good

DATE

6.10.2021-13.10.2021

LOCATION

Sri Krishna College of Engineering and Technology, Coimbatore

FACULTY MEMBERS

Dr. M. Lydia Head of the Department/MCT
Mr. T. Vignesh Assistant Professor/MCT

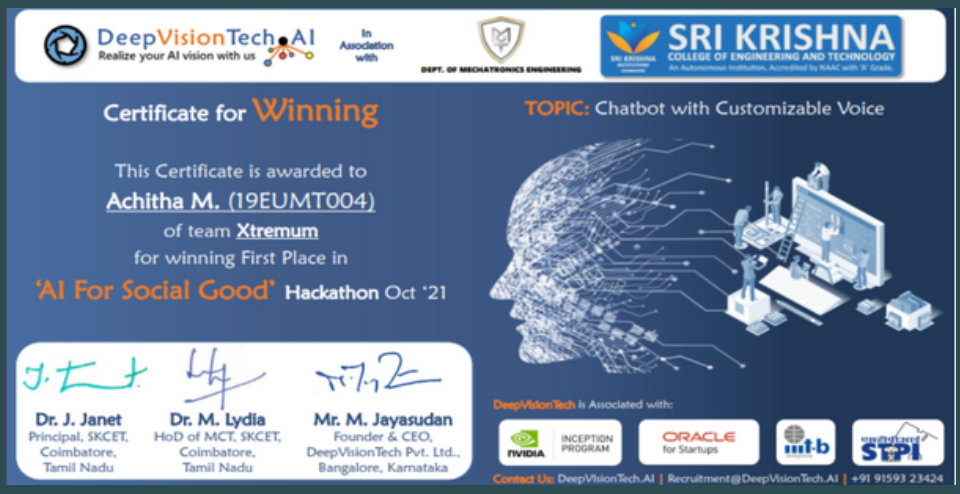
PARTICIPANTS

Achitha M Hemand
Adish R
Ashik Illahi M

EVENT OUTCOME

First Prize: Xtremum From Mechatronics Engineering

Hackathon: AI For Social Good



SMART INDIA HACKATHON 2020 (HARDWARE)

DATE

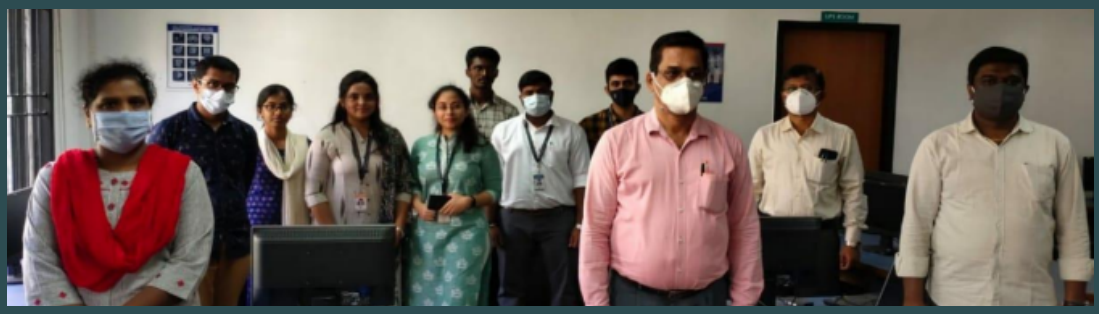
21.12.2020 - 23.12.2020

PARTICIPANTS

Shibin Thomas S - III Year
Prawin Sankar - III Year

EVENT OUTCOME

First Prize



SMART INDIA HACKATHON 2020 (HARDWARE)

DRONE CHALLENGE

DATE

11.03.2020

LOCATION

Dept. of Aeronautical Engineering in Hindustan Institute of Technology, Coimbatore

PARTICIPANT

Vibunesh N T

EVENT OUTCOME

Third Prize

Prize Amount: Rs. 750

HINDUSTHAN INSTITUTE OF TECHNOLOGY
Coimbatore - 641 032.
(An Autonomous Institution, Approved by AICTE, Affiliated to Anna University, Chennai, Accredited by NBA and NAAC with "A" Grade)

CERTIFICATE OF REWARD

MACH ENGINEERS

This is to certify that Mr./Ms. VIBUNESH of SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY has secured I/II/III place in the event DRONE RACE in the One Day National Symposium "SAKURA 2020" organized by the Department of Aeronautical Engineering on 11th March 2020.

Coordinator

K.P. Dhanabal
HOD

Principal

DRONE CHALLENGE

DATE

27.02.2020

LOCATION

Department of Mechanical Engineering in SKCT

PARTICIPANTS

Vibunesh N T - II MCT
Jenil D J - II MCT A

EVENT OUTCOME

First Prize
Prize Amount: Rs.1500

DRONE CHALLENGE

IFA HACKATHON - CHENNAI

DATE

08.12.2019

LOCATION

IFA - Chennai

FACULTY MEMBERS

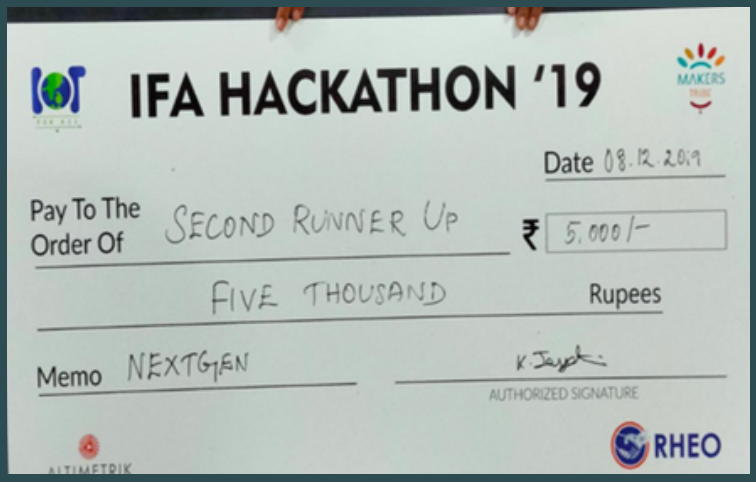
Mr T. Vignesh Assistant Professor/MCT
Mr N. Manikankadan Assistant Professor/MCT

PARTICIPANTS

Shibin Thomas S - IIIYear
Prawin Sankar - III Year
Biruthavani - III Year

EVENT OUTCOME

Topic: Nextgen app
Second Prize
Prize Amount: Rs. 5000



IFA HACKATHON - CHENNAI

TCS XR HACKATHON - CHENNAI

DATE

17.10.2019

LOCATION

TCS - Chennai

FACULTY MEMBERS

Mr T. Vignesh Assistant Professor/MCT
Mr N Manikandan Assistant Professor/MCT

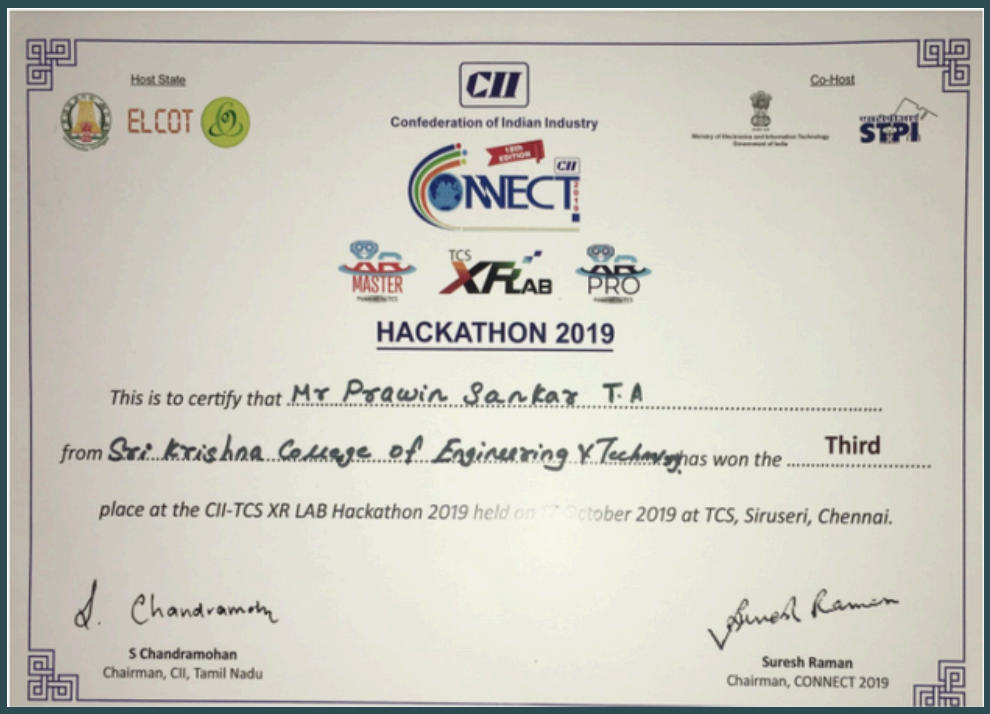
PARTICIPANTS

Shibin Thomas S
Prawin Sankar

EVENT OUTCOME

Prize Amount: Rs. 2,00,000

TCS XR HACKATHON - CHENNAI



Host State ELCOT

CII Confederation of Indian Industry

Co-Host STPI

CONNECT

HACKATHON 2019

This is to certify that Mr Prawin Sankar T.A

from Sri Krishna College of Engineering & Technology has won the Third

place at the CII-TCS XR LAB Hackathon 2019 held on 17 October 2019 at TCS, Siruseri, Chennai.

S Chandramohan
Chairman, CII, Tamil Nadu

Suresh Raman
Chairman, CONNECT 2019

Host State ELCOT

CII Confederation of Indian Industry

Co-Host STPI

CONNECT

HACKATHON 2019

This is to certify that Mr SHIBIN THOMAS

from Sri Krishna College of Engineering & Technology. has won the Third

place at the CII-TCS XR LAB Hackathon 2019 held on 17 October 2019 at TCS, Siruseri, Chennai.

S Chandramohan
Chairman, CII, Tamil Nadu

Suresh Raman
Chairman, CONNECT 2019

SMART INDIA HACKATHON - CHANDIGARH

DATE

24.09.2019

LOCATION

Chandigarh Engineering College,Chandigarh

FACULTY MEMBER

Mr T. Vignesh Assistant Professor/MCT

Project Expo - CODISSIA

DATE

10.9.2019 - 13.9.2019

LOCATION

Coimbatore

FACULTY MEMBERS

Mr T. Vignesh Assistant Professor/MCT
Mr N Manikandan Assistant Professor/MCT

EVENT OUTCOME

No. of Projects: 9

Project Expo - CODISSIA

TAKE UP RACING (AERO MODELING)

DATE

04.02.2019

LOCATION

Kumaraguru College of Technology

EVENT OUTCOME

Prize: Rs. 8000

AEROBATIC MANOEUVRES - Drone and Flight

DATE

03.01.2019

LOCATION

IIT Madras Shaastra Tech Fest

EVENT OUTCOME

Third Prize

TECH FEST

DATE

14.12.2018 - 17.12.2018

LOCATION

IIT Bombay

BOEING TEAM

DATE

14.12.2018 - 17.12.2018

LOCATION

IIT Bombay

FACULTY MEMBER

Mr T. Vignesh Assistant Professor/MCT

BOEING TEAM

Quick
Grid

Techfest
14th-16th Dec, 2018
COMPETITIONS
CERTIFICATE
OF PARTICIPATION
This certificate is awarded to Mr./Ms.
Aishwarya P B
for participating in the Boeing Aeromodelling Challenge
competition conducted by Techfest, IIT Bombay.
Prof. Soumyo Mukherji
Dean of Student Affairs
IIT Bombay
Himanshu Kala
Overall Coordinator
Techfest

SMART INDIA HACKATHON 2018 - ASSAM

DATE

30.03.2018 - 31.03.2018

EVENT OUTCOME

Deloitte Innovation Award - 10K

PARTICIPANTS

Team Name: Educational Guider
Preethi, Santhosh Kumar, Siva Sathish, Varun Vinayak, Rohith VL, Vasu Devan