

**Sandip Foundation's**  
**Sandip Institute of Engineering and management, Nashik**  
**Department of E&TC Engineering**

## **Achievements of Students during 2022-23**

**The students of E&TC Participated in various activities as described below;**

<b>Sr.No.</b>	<b>Name of the Students</b>	<b>Program Details</b>	<b>Organized By</b>	<b>Prize</b>	<b>Date</b>
1	Pratiksha Khairnar	KPIT SPARKLE 2023	KPIT Tecgnologies , Pune	Special Appreciation in Top24 Projects Rs.25,000/-	18-20 March 2023
	Harsh Mourya				
	Ashok Biradar				
	Sarfaraaj Ansari				
2	Harsh Mourya	AVISHKAR 2023	SPPU Pune	Final Round Selection and Representation in State Round Level	13th-14th January 2023
	Ashok Biradar				
	Priya Kshatriya				
3	Harsh Mourya	PICT inc 23 Project Competition	PICT Pune	1 <sup>st</sup> and 2 <sup>nd</sup> for 02 Projects RS. 25000/-	22 April 2023
	Ashok Biradar				
	Yash Dhakae				
	Sanket Choudhari				
	Ashok Biradar				
	Yash Dhakae				
	Sanket Choudhari				
	Pratiksha Khairnar				
4	Harsh Mourya	GMRT Pune: Science Day	GMRT, Pune	Special Appreciation	28 Feb. 2023
	Ashok Biradar				
	Aniket pande				

### **I. KPIT SPARKLE 2023:**

**Organized By: KPIT Technologies, Pune.**

**Proejct Title: E-Hydra**

**Project Mentor:** Prof. Y.R.Risodkar, Prof. M.K.Sangole, Prof. B.D.Deore and Industry Mentors from KPIT, Pune

**Description:**

A Hybrid Auto Rickshaw as a prototype Developed with hybrid system of battery and Hydrogen Fuel Cell. The HHO kit additionally implemented for the improving the system performance. The MATLAB based Simulation for Fuel Cell and complete system validation done under the guidance of Mentor Prof. Y.R. Risodkar and Industry Mentors from KPIT.

**Outcome:**

1. Qualified in Round 1, Round 2 and listed in final Top 24 Projects.
2. Opportunity for presentation of concept with model in front of industry Jury committee , Director, STO, CEO of KPIT.
3. Received Rs.25,000/- finance support from KPIT as a part of expenses of prototype development.
4. Recognition of student efforts and placement opportunity received.

**II. AVISHKAR 2023**

**Organized by:** SPPU, Pune

**Project Title:** E-Vaidya

**Project Mentor:** Prof. Y.R.Risodkar

**Description:**

E&TC Students participated in **AVISHKAR 2023**, a competition organized by SPPU Pune. Student had submitted the innovative concept of utilizing wheel chair with PSA system and sensors to help the patients in pandemic. The system has features of sensing the patient's data for ecg, O2 level measurement, etc and uploading the same on cloud with IoT system.

**Outcome:**

1. Qualified at zonal Level Round and got selected in final round at SPPU campus for state Level presentation.
2. Appreciated by various Jury members and SPPU VC, Pro-VC for providing a quality solution with social impact.

3. NGOs and Doctors discussed the project details and offered possible help in more research and improvements in this concept.

### **III. PICTE InC 23**

**Organized By:** PICTE , Pune

**Project Title:** Smart Wheel Chair – E-Vaidya , Hyvrid Vehicle system with Fuel Cell Technique

**Project Mentor:** Prof. Y.R.Risodkar

#### **Description:**

E&TC Students participated in the project Competition organized by PICTE and represented the developed Protpe Smart Wheel Chair with Battery System. The model has has a facility of PSA system to provide pur Oxygen. It is a standalone system which can be used for patients with CO-PD cases. The patient's data can be stored on cloud using IoT system.

The another Project of Hybrid Vehicle with Fuel Cell techniques , having the updated Fuel cell simulation system was showcased.

#### **Outcome:**

1. The developed prototype has successfully shown the real time demonstration of the prototype. In case of E-Vaidya, the AI algorithm developed in monitoring the Oxygen level of CO-PD patents.
2. Data display, ana;lsysi using IoT system.
3. Qualified with Prizes as 1<sup>st</sup> and 2<sup>nd</sup> Winner in the submitted projects.

### **IV. Science Day Project Exhibition, GMRT, Pune**

**Organized by :** GMRT, Pune

**Project Titles:** E-vaidya, Automated Weighing System

**Project Mentor:** Prof. Y.R.Risodkar, Prof. Adita Patil

**Description:**

E&TC Students of TE and BE class participated in Science Exhibition at GMRT Pune on the occasion of science Day. Teams represented their concept and prototype. The project of Automated Weighing Mentoring System was represented which has a security aspect of calibration of the weighing Machines using the online platform. The Project E- Vaidya represented the social impact of the project with applications in health sector.

**Outcome:**

1. Interaction with well-known people working as a scientist at GMRT.
2. Students get awareness of the internal operations, work of GMRT.
3. Appreciation of projects by the jury members with special appreciation award.

**Event Photographs:****I. KPIT SPARKLE****II. AVISHKAR 2023**



### III. PICTE InC 23

**PUNE INSTITUTE OF COMPUTER TECHNOLOGY**  
S.No. - 27, Near Trimurti Chowk, Ohankawadi, Pune

Presents  
**InC '23**  
Open to all engineering branches  
Confirmed to specific domains  
Visit website for domain details

Overall Prizes to be won Worth **Rs. 7 Lakhs**

**8<sup>th</sup> - 10<sup>th</sup> April**

**The Leading Technical Convention**

Impetus and Concepts (InC) is a flagship technical event of SCTP's Pune Institute of Computer Technology (PICT) Pune, which will be held during the 2nd week of April 2023. InC is a intercollegiate international level competition which has been catching the attention of corporate giants for quality of projects and an opportunity to students to realize their ideas into effective product. Over the years, it has become the most popular and awaited event with continuous improvement in footfall, number and quality of projects. This even also sets platform for students to design, exhibit and watch their ideas come true. This technical fest has inventive events namely - Impetus, Concepts and Pradnya.

- Impetus** - Project Competition (FE to TE students)  
Registration Fee - Rs 100
- Concepts** - Project Competition (Final Year Students)  
Registration Fee - Rs 300
- Pradnya** - International Level Coding Competition  
Registration Fee - Rs 100

InC announces a total cash prize of Rs. 7 lakhs and a special prize of Rs. 1 Lakh for Projects

**Co-Sponsors**  
iMecho, Sarvatra, AUTOMATICA

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In Association With: IP-ESS, PICT, CSI

**Title Sponsors**  
UPTIQ, eQ Technology

**Co-Sponsor and Concepts Sponsor**  
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### IV. Science Exhibition GMRT, Pune

