

# e-YANTRA FARM SETUP INITIATIVE (eFSI)

The e-Yantra farm setup initiative (eFSI) is an initiative taken by IIT-Bombay towards promotion of automation and robotic research in the field of agriculture. This initiative mainly focuses on the development of smart and automated systems which can be used to solve modern day agricultural problems. Moreover, it emphasizes on the application of normal concepts of electronics towards day to day problems and implementation of real time solutions for such problems.

The students are provided with a dedicated area for implementing their own robotic systems and prototypes and develop new agricultural solutions. The setup includes a miniature farm which acts as a seed bed and where students can grow plants and conduct their studies on different agricultural aspects. This provides them real time exposure to the area and give them a chance for 'real time analysis' of both the problem and their proposed solution.



## **eFSI Team Registered at IIT Bombay**

Faculty Coordinator: Ms. Ashvini Deshmukh (ECE)

Student Names: Mr. Shubham Jain (TTEC)

Mr. Dhananjay Patel (TTEC)

Mr. Samwaran Banerjee (STEC)

Mr. Ankur Tomar (STEC)

# Workshop on Embedded System and Robotics

The aim of the one week workshop is to train students of second year in the basic concepts of Embedded systems and Micro-controller programming as the first phase of training through senior students.

- Students work on FireBird V robot.
- After training on Embedded System and Robotics students participate in Robotics Competition.



# e-YIC-2018 Regional Finals at MGMCoET,

e-Yantra is a flagship project of the Ministry of Human Resources Development (MHRD, Govt. of India) funded under the National Mission on Education through ICT (NMEICT) at IIT Bombay to spread education in Embedded Systems and Robotics in undergraduate engineering and polytechnic colleges. The main objective of e-Yantra is to train students in the art of innovation and eventually entrepreneurship in a step-by-step manner using a “Project Based Learning” approach.

In this year's edition of the Ideas competition, eYIC-2018, out of 254 project proposals (from 121 colleges) received, 105 were selected for Stage 2. Submissions from 75 (4-person) teams out of 105 shortlisted teams, are invited to implement their idea and submit a demonstration video, code and a closure report. A total of 42 teams have been selected to participate in the Regional Finals to be held at various cities all over india. For North region it is held at MGM's College of Engineering and Technology , NOIDA .



Following colleges has been participated in eYIC Regional Finals 2018 at MGMCoET

Sr.No.	Project Name	College Name
1	Human Arm Simulation Using Kinect	IMS Engineering College,Ghaziabad
2	Energy Efficient Digital Smart Home	Mahatma Gandhi Mission's College of Engineering & Technology, Noida
3	Truckagehub	Mahatma Gandhi Mission's College of Engineering & Technology, Noida
4	Net Zero Automatic Solar Panel Cleaning Robot	Swami Keshvanand Institute of Technology,Mangement,Jaipur
5	Asl Based Low Cost Voice Interface For Mute People	Meerut Institue of Engineering and Technology



Two Teams of MGMCoET has been selected for National Finals of eYIC-2018 at IIT Bombay.  
Felicitation of Teams by Prof Sarswati ,IIT Bombay and Group photograph of eYIC Regional Finals at MGMCoET,Noida.



# e-YIC National Finals-2018 at IIT Bombay

e-Yantra Ideas Competition (eYIC) seeks to identify and nurture potential entrepreneurs in the e-Yantra Labs that the project has set up throughout the country. Students are invited to submit a proposal to solve a local problem using their e-Yantra lab and after an intense process of selection and vetting, are permitted to go ahead and build the proposed system using their e-Yantra labs

. After a pre-selection in regional finals this year in Coimbatore, Ernakulum, Bangalore, Pune, Mumbai, Ahmedabad and Noida, the 18 finalists present their implement ideas at IIT Bombay on March 23-24, 2018. Two teams of Mahatma Gandhi Mission's College of Engineering & Technology with the projects 'Energy Efficient Digital Smart Home' and 'Truckagehub' were two of the 18 finalists in the e-Yantra Ideas Competition National Finals at IIT Bombay .



## Project

Name:TrukageHub

Student Name:

1)Abhshek Kaushal

2)Shubham Mittal

3)Manisha Rawat

Guided By:Ms.

Ashvini Deshmukh



## Project:Energy

Efficient Digital

Smart Home

Student

Name:1)Avneesh

Tripathi

2)Mohd Kabir Ansari

3)Gaurav Kumar

4)Sumit Singh