

## EMBEDDED CLUB ACTIVITIES 2020-21

List of activities carried out by embedded club members in the year 2020-21 are given as follows

1. IEEE YESIST 12 Innovation Challenge Track
2. Live interactive session with e-yantra, IIT Bombay
3. Working projects developed by embedded club members
4. Embedded club website design

1. IEEE YESIST 12 Innovation Challenge Track

IEEE YESIST'12 in association with IEEE Nagpur Sub section and Yeshwantrao Chavan college of Engineering Student Branch has organized an Innovation challenge track in which embedded club members have participated and submitted the abstract of the project on **Smart water management** (Aug 10).

The students have participated in the preliminary round against 10 teams and successfully cleared and made it into the finals.

**Yeshwantrao Chavan College of Engineering Nagpur**

**IEEE YESIST 12  
INNOVATION CHALLENGE TRACK  
CALL FOR  
ABSTRACTS**

**Theme**  
**Preparing for future: Sustainable Transformative  
Technologies**

**Deadline**  
10/08/2021

**Submit Here:**  
<https://portal.ieeeyesist12.org/ic-pilot-yccen/>

**Topics**

- Uplifting societal standards
- Disaster prediction and Risk Management
- Special Needs and healthcare
- Women and children Safety
- Natural Resource management and protection
- Geographical and space science

**Team size:** Maximum of 4 members (Preferably 1 Girl)

**IMPORTANT DATES:**  
Abstract Submission: 10/08/2021  
Notification of Acceptance: 15/08/2021  
Preliminary Round: 23/08/2021  
Grand Finale Round: 18-19 September 2021

For more details visit: <https://ieeeyesist12.org/>

**Pilot Coordinators: Dr. Yogita Chitriv and Dr. Prachi Palsodkar**

Contact us: Trushita Sonkusare (9881123259)  
Dnyaneshwari Yelne (9527251703)

Following students from embedded club have participated in this competition.

Apoorva Pardhi  
Manthan Ingale  
Rishubh Kumar  
C Rohit

Their participation certificates are attached below





INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education Initiative)

IEEE  
NAGPUR SUBSECTION

IEEE  
YCCE STUDENT BRANCH 31221

YESIST12  
AGE OF INNOVATION

## CERTIFICATE OF PARTICIPATION

This is to certify that

*Rishubh Kumar*

of Shri Ramdeobaba College of  
Engineering and Management, Nagpur has  
actively participated in the preliminary  
round of YESIST'12 2021 organised by  
Yeshwantrao Chavan College of  
Engineering Nagpur.

Dr. Y. U. Chitriv  
Pilot Coordinator

Dr. U. P. Waghe  
Principal, YCCE

Dr. P. P. Palsodkar  
Pilot Coordinator



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YESIST12  
AGE OF INNOVATION

## CERTIFICATE OF PARTICIPATION

This is to certify that

*C. Rohit*

of Shri Ramdeobaba College of  
Engineering and Management, Nagpur has  
actively participated in the preliminary  
round of YESIST'12 2021 organised by  
Yeshwantrao Chavan College of  
Engineering Nagpur.

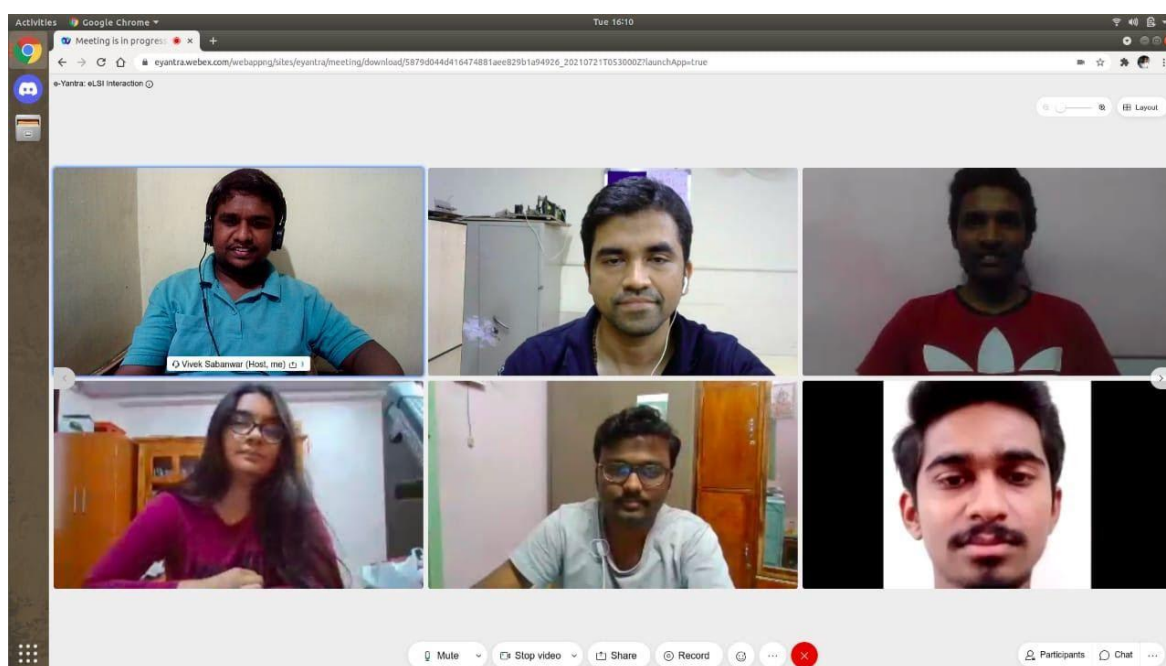
Dr. Y. U. Chitriv  
Pilot Coordinator

Dr. U. P. Waghe  
Principal, YCCE

Dr. P. P. Palsodkar  
Pilot Coordinator

## 2. Live interactive session with e-yantra, IIT Bombay

E-yantra team, IIT Bombay has organized an online interactive sessions with the institutes with e-Yantra labs under E-yantra Lab Setup Initiative (e-LSI) to discuss about various learning opportunities using e-Yantra platform. Electronics engineering department having e-Yantra lab have participated in the session on 20<sup>th</sup> July 2021 with a few faculties and embedded club members. The discussion was useful and students got significant insight about the e-Yantra activities.



Following is the list of the participants attended the interaction

Sr.No	Participant Name	Designation	Email ID
1	Dr.S.S. Balpande	Assistant Professor	balpandes@rk nec.edu
2	Prof. Sandeep Pandey	Assistant Professor	<a href="mailto:pandey s@rk nec.edu">pandey s@rk nec.edu</a>
3	Prof. Jitendra Zhalke	Assistant Professor	<a href="mailto:zalkej@rk nec.edu">zalkej@rk nec.edu</a>
4	Prof. SharmikAdmane	Assistant Professor	<a href="mailto:admanes@rk nec.edu">admanes@rk nec.edu</a>
5	Prof. Rushikesh Deshmukh	Assistant Professor	<a href="mailto:deshmukhra@rk nec.edu">deshmukhra@rk nec.edu</a>
6	Parth Agrawal	Student	<a href="mailto:agrawalpr@rk nec.edu">agrawalpr@rk nec.edu</a>
7	Apoorva Pardhi	Student	<a href="mailto:pardhias@rk nec.edu">pardhias@rk nec.edu</a>
8	Anshul Gaikwad	Student	<a href="mailto:gaikwadaj@rk nec.edu">gaikwadaj@rk nec.edu</a>
9	RutvikKapse	Student	<a href="mailto:kaps erg@rk nec.edu">kaps erg@rk nec.edu</a>
10	Swastika Baheti	Student	<a href="mailto:bahetis@rk nec.edu">bahetis@rk nec.edu</a>

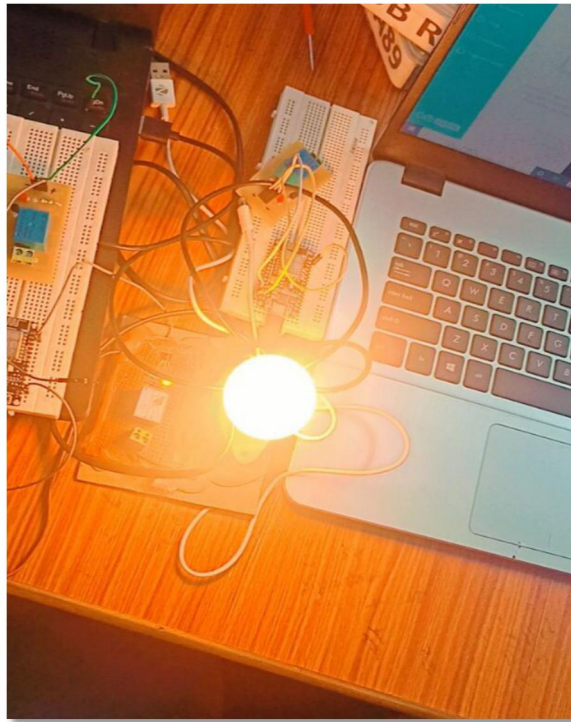


### 3. Working projects developed by embedded club members

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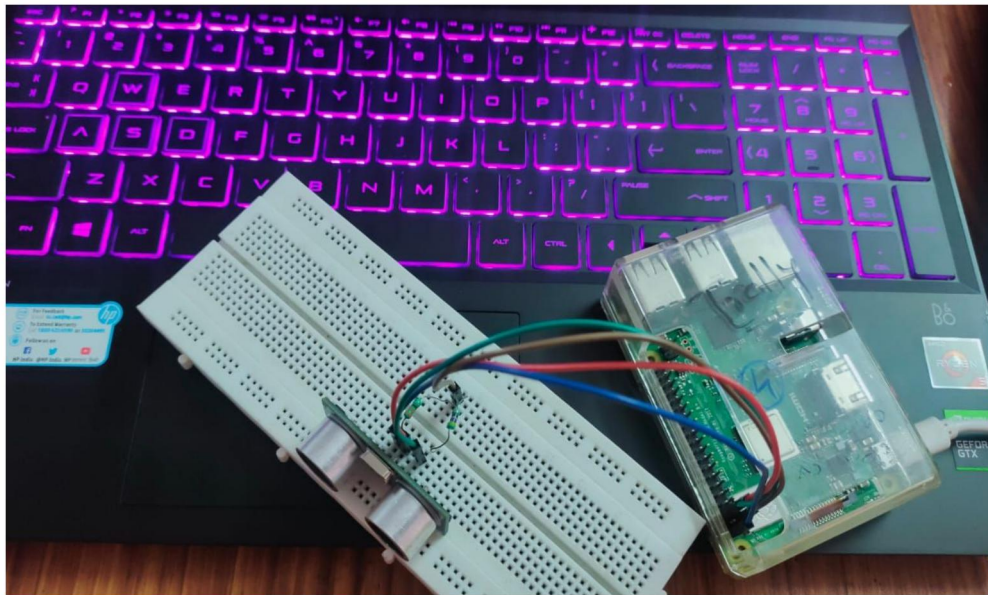
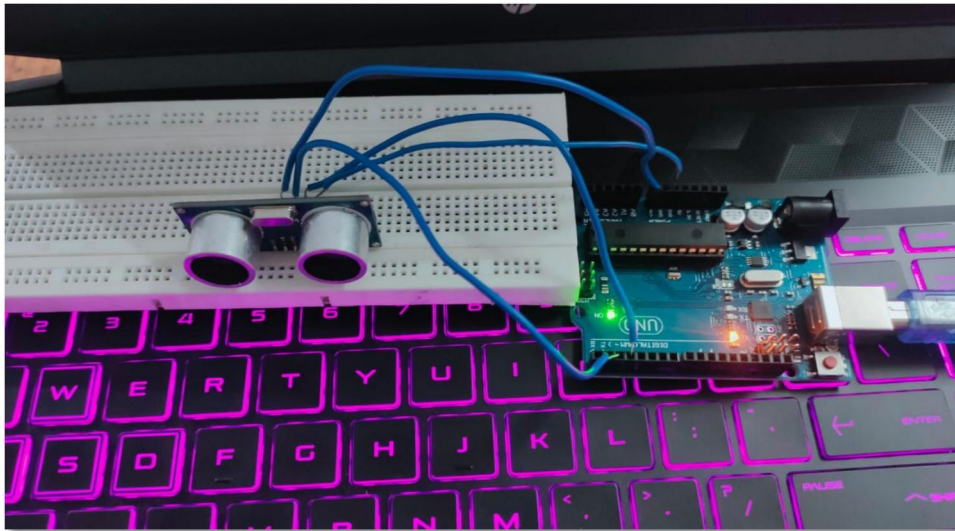
#### **Home Automation System**

With this system AC loads can be controlled over the internet. The system is based on ESP8266 and controlling of lamp load can be seen using an actuating relay.



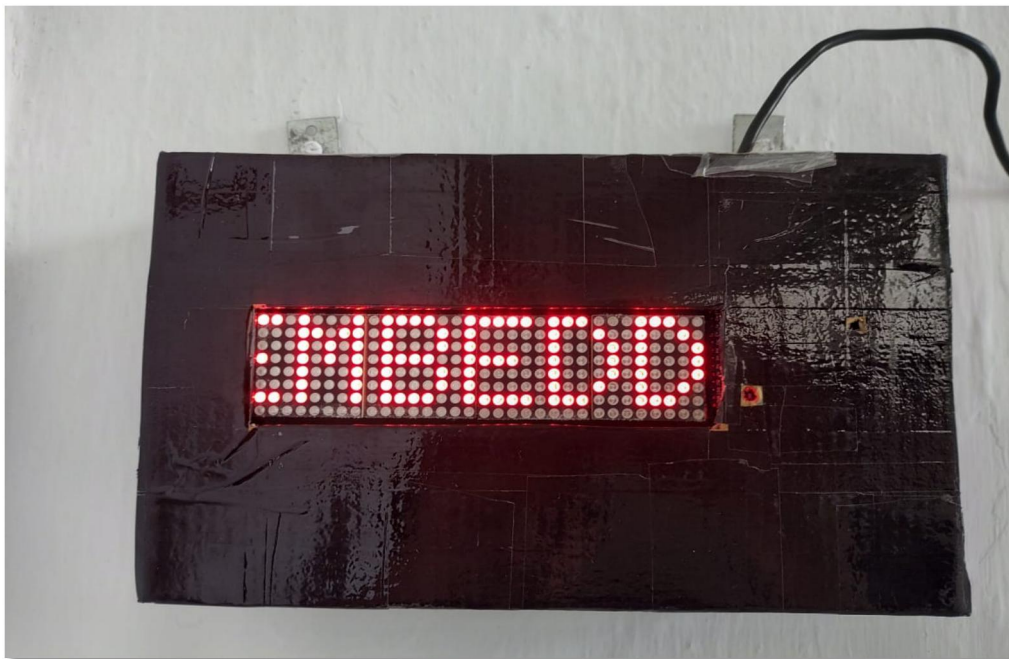
#### **Distance measurement using ultrasonic sensor**

A very generic HC-SR04 ultrasonic trans-receiver module is being used for various applications to measure distance with a decent accuracy. This versatile sensor is tested out with two of the most popular hardware platforms viz. Arduino and Raspberry Pi.



### **Bluetooth Controlled Display Board**

The system consists of a dot matrix LED display controlled over a Bluetooth link. Such type of system could be useful as wireless notice boards or token counters in public places. The system is Arduino based and HC05 bluetooth module is used for Bluetooth connectivity. With the help of an Android App one can send the data to be displayed on the board. The system is installed at the entrance of embedded club.



#### 4. Embedded club website design

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In order to keep students updated about the embedded club activities like workshops, projects, events, etc. Embedded club members decided to design a website for embedded club. Because of the content and being regularly updated, this website got popular very fast among the students. This website gave an online identity to the embedded club. The URL for the website is given below



<https://sites.google.com/view/embeddedclubrcoem/home>

