



**SOMAIYA**  
VIDYAVIHAR

**K J Somaiya Institute of Engineering and Information Technology**  
An Autonomous Institute affiliated to University of Mumbai.  
Accredited with A grade by NAAC and 3 programs by NBA, Approved by AICTE, New Delhi.

## **Report On**

### **The Two Weeks Online International Internship in “INTERNET OF THINGS (IOT) TO PRODUCT DESIGN”**

**Conducted during May 20-30, 2020**

As the outcome of COVID 19 Lockdown was imposed in Mauritius as well as India, to enable the positive interaction between the students of both the countries under Lockdown regime in both countries, the concept of holding International Internship Program was devised.

This two-weeks online Internship in “Internet of Things (IoT) To Product Design” was jointly organized by the University of Mauritius (UoM), the Faculty of Information, Communication and Digital Technologies (FoICDT) and the Trans Asian Chamber of Commerce & Industry, India (TACCI) in Collaboration with the Widyaarjan LLP, India from the 20th of May 2020. This training programme is among the first outcomes of a Memorandum of Understanding (MoU) signed between the University of Mauritius (UoM) and the Trans Asian Chamber of Commerce & Industry (TACCI) and coordinated by Dr. Vaishali Wadhe, Founder, Widyaarjan LLP and Associate Professor, K J Somaiya Institute of Engineering & Information Technology, Mumbai

In the implementation of this ambitious internship programme, the following distinguished persons from Mauritius and India were actively participated in the inaugural function:

- Dr. Dhanjay Jhurry, Vice Chancellor, University of Mauritius.
- Mr. Sanjay Bhide, Convenor & Secretary, Trans Asian Chamber of Commerce & Industry, India
- Dr. Sundaresan Maiyalagan, Ho. Founder Secretary of Mauritius Chapter, Trans Asian Chamber of Commerce & Industry
- Dr. Vitthal Kamat, Executive Chairman, Kamat Hotels India Ltd.
- Dr. A. D. Sawant, Scientist and ex-Vice chancellor, University of Rajasthan, India.



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- Dr. Sunita Patil, Professor, Somaiya Vidyavihar
- Dr. Vaishali Wadhe, Founder, Widyaarjan LLP

This Internship program was smoothly coordinated by:

- Dr. Roushdat Elaheebocus, Sr. Lecturer, University of Mauritius
- Dr. Vaishali Wadhe, Founder, Widyaarjan LLP and Associate Professor, K J Somaiya Institute of Engineering & Information Technology, Mumbai

#### **Objectives:**

1. To engaging students from both countries and few other countries in creative activities related to their curriculum.
2. To part with latest technical knowledge through qualified technical faculties.
3. To get exposure to the current technological developments relevant to Electronics Product Design
4. To encourage students to find technical solutions to design societal need based products.
5. To expose the students to future employers.

Registration for the event far surpassed the organizers expectations, with more than two hundred fifty participants from both India and Mauritius, East London and UK. A number of prominent speakers from both countries, based in Higher Education Institutions and the industry delivered the core content of the programme.

The topics covered in the internship included:

- IoT Ecosystems
  - Connecting Technologies and Protocols
  - Commonly used boards and microprocessors
- IoT Applications and Case Studies
- The use of Tinkercad and ThingSpeak
- Research Methodology, Project Management
- Report Writing and Open Source Contribution



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- Introduction to IPR
- Startups
- Internet of Medical Things

The online internship programme has provided participants with an up-to-date and technical perspective of IoT. Participants were exposed to several real-life applications of IoT and appropriate assignments were set to allow them apply the knowledge gained. The inclusion of daily assignments on the day's topics ensured students' sustained engagement throughout the internship as well as continuously stimulated their critical thinking skills and creativity.

Towards the end of each daily session, the participants were taken on virtual tours to learn more about the history, cultures and places of interest in Mauritius and India.

Feedback obtained from the students showed that an overwhelming majority perceived the internship to have been beneficial to them and will be eager to embark on similar online internships in the future. In terms of participants' demographic data based on feedback from 150 participants, 71% of them were from Mauritius, with the remaining 29% from India. The male to female ratio was 1:1. Most of the participants were from the 18-24 years old age group. An in-depth analysis of the gathered feedback will be released in the near future.

Speaker for this internships were:

- Dr. Saurabh Mehta, India
- Dr. Sundaresan Maiyalagan, Mauritius
- Dr. Kavi Khedoo, Mauritius
- Dr. avinash Mungur, Mauritius
- Dr. Rajen Suntoo, Mauritius
- Dr. Raj Moloo, Mauritius
- Dr. Sunita Patil, India



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- Mr. Aatish chinniah, Mauritius
- Mr. Shehzad Jaunboccus, Mauritius
- Mr. Leckraj Nagowah, Mauritius

### Outcomes:

- To able to exchange knowledge in the field of Internet of Things through online platform
- To design solutions using Arduino, Raspnerry Pi, Tinkercad and ThingSpeak.
- To able to apply the technical knowledge in real industrial situations.
- To able to write technical reports/projects.
- To understand importance of Intellectual Proper Rights.

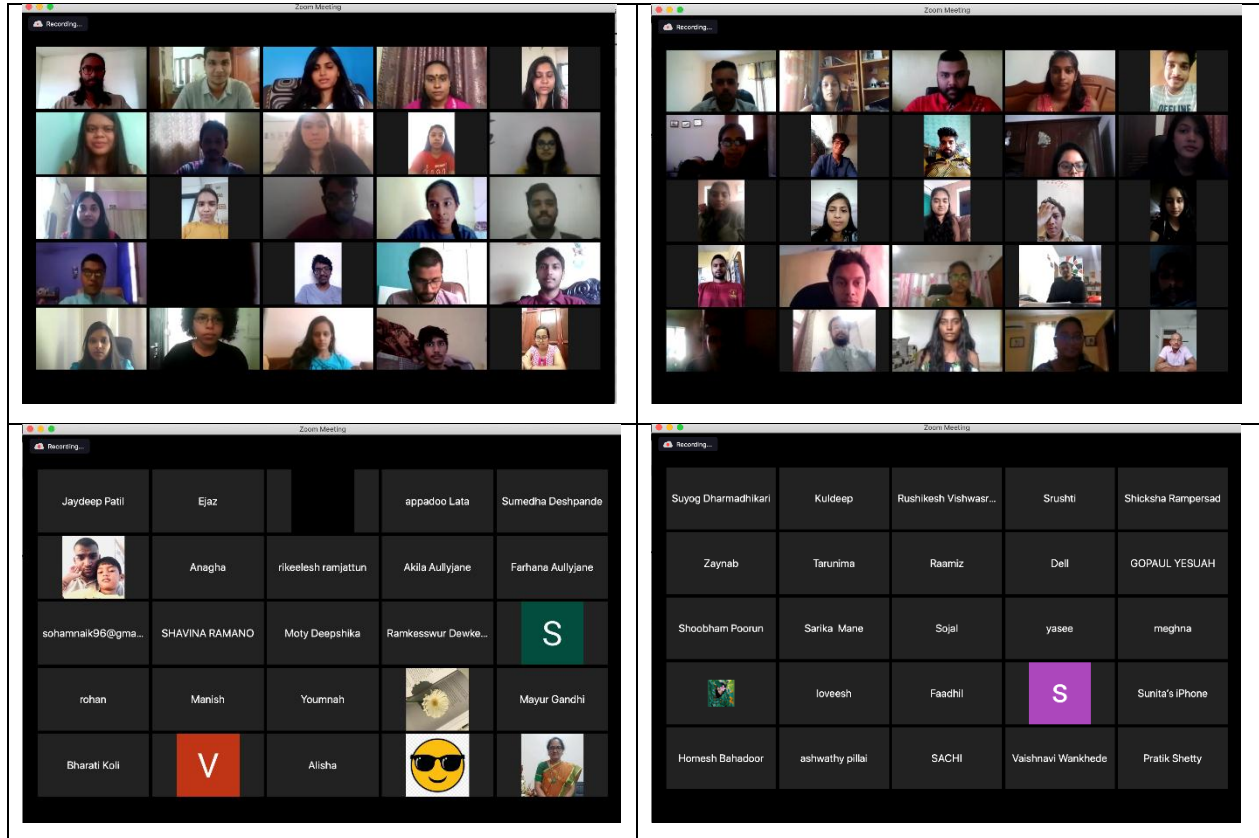
### Photographs:





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- **Dr. Vaishali Wadhe, Coordinator, India**
- **Dr. Roushdath Elaheebocus, Mauritius**