

ISA VESIT ANNUAL REPORT

Faculty Advisor:

We are very grateful to our Faculty Advisors who have played an important role in helping ISA to get through the year. They have provided us with their valuable guidance and motivated us to try new things and achieve new heights.



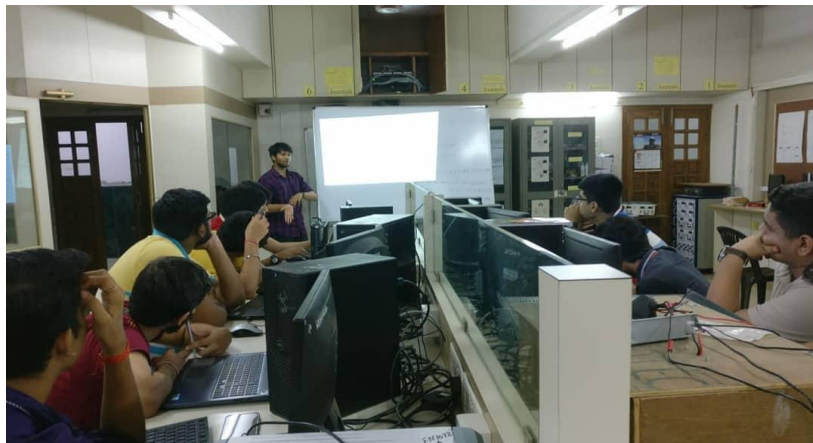
Prof. Jayashree Ramakrishnan



Prof. N. Gopalkrishnan

For the academic year 2019-2020, ISA VESIT has successfully conducted a plethora of events and workshops. The aim was to impart knowledge and give the members an opportunity to gain hands-on experience regarding the topics covered.

An intensive workshop on **Raspberry Pi and Python** was conducted at the beginning of the year. Participants were taught the basics of Linux, IoT.



In collaboration with the Tinkerer's Lab, ISA VESIT conducted the **Arduino Workshop**, for Second year students, to give them exposure to Arduino programming.



For providing knowledge in domains such as Process Automation and Industrial Electronics a workshop on **Programmable Logic Controller** was conducted.



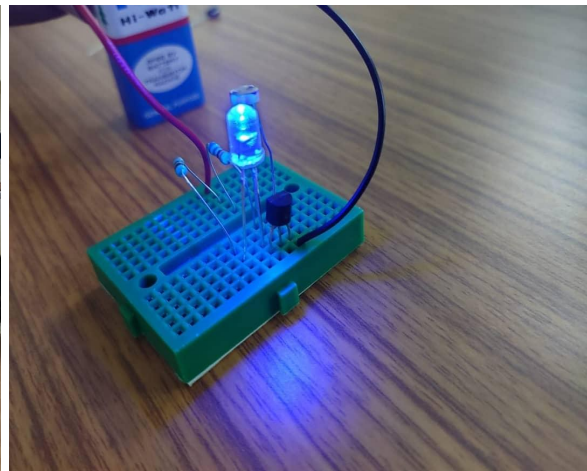
A Workshop on **Web Development** for third-year engineering students was organised, where they were able to practically implement the theoretical knowledge imparted through the same.

Leading up to PRAXIS, ISA VESIT organized a pre praxis **Bluetooth Communication** workshop.

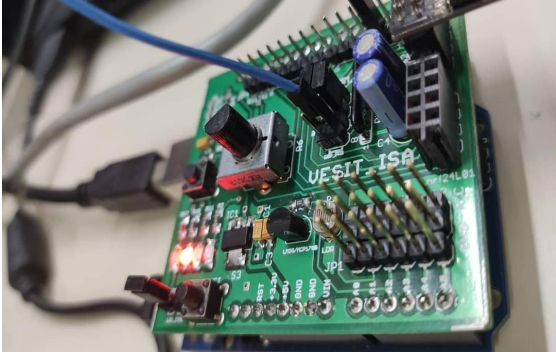


During the Praxis fest, ISA VESIT also organized two fun-cum-learning events, **Build and Hit** and **Crack the Code**.

Analog Electronics Workshop was conducted where the participants worked on different circuits to gain practical knowledge.



As a part of Winter Workshops, ISA VESIT organized the **Wireless Sensor Network (WSN)** and **Field Programmable Gate Arrays** workshops where theoretical knowledge was conveyed through practical implementation.



WSN WORKSHOP



FPGA WORKSHOP

BE and Beyond was the event organized to give the audience an insight about the options available after the completion of their degree.

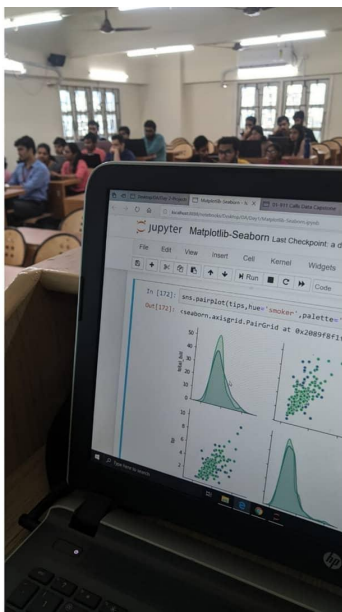
An **Image Processing Workshop** was held, an introduction to basic Python programming, after which they were introduced to Numpy, OpenCV and Matplotlib libraries.



A two-day **3D Printing** workshop was conducted where each team got a basic introduction to Fusion 360, followed by building basic 3-D shapes and models.



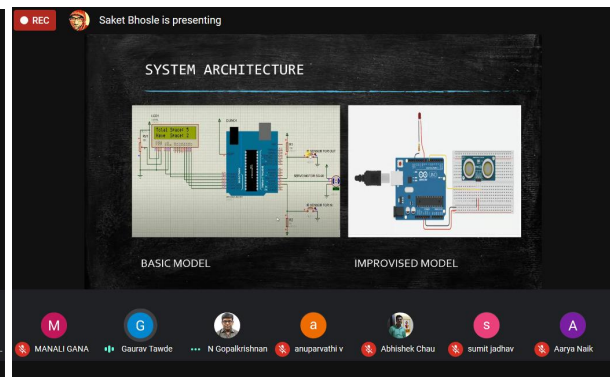
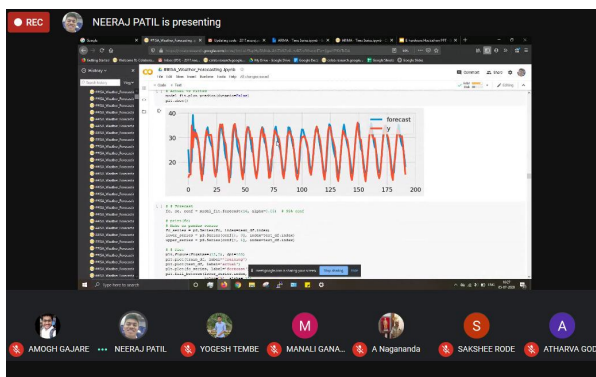
In February, **Data Analytics** workshop was conducted, the content included in this workshop comprised predictive analysis and model training using Tensorflow.



An **APP Development** workshop was conducted, introducing the participants to different tags in HTML and their use to design an interactive webpage.



During the corona pandemic ISA conducted an online event **E-Hardware Hackathon**. The solution was presented in a PPT presentation and live simulation format.



In addition to the workshops and events, ISA VESIT launched its own mobile application, **INNSÆI**. The application has various features like a Digital Library for all students, an online inventory for leasing and returning electrical components, an academic calendar, Alumni Hub and a 3D Printing Portal.

The 2019-2020 academic year proved to be a greatly productive one for ISA VESIT. We look forward to continuing on the same path and advancing our learning curve over the next academic year. We would like to extend our gratitude to all benefactors, especially all our sponsors and our respected faculty.

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