VISHWAKARMA INSTITUTE
OF TECHNOLOGY, PUNE

International Society of Automation
Vishwakarma Institute of Technology
Student Section

ISA VIT PUNE STUDENT SECTION
ANNUAL REPORT- 2021-22

PITCH DECK

Date: 12th September 2021

MODE: ONLINE

PARTICIPANTS: 15+

PLATFORM: GOOGLE MEET

No. of Faculty participated :1

Description: PITCH DECK was a presentation competition conducted by ISA VIT Pune in which the students had to come up with new ideas and pitch them in the form of a presentation and get them approved by the industry experts. By means of this competition the students developed their skills of pitching ideas in a proper way, by the guidance of the industry experts they learnt how to actually pitch their ideas and what points to include in the presentation while asking funds for a product or sponsorship.

INGENIOUS 2022 - A NATIONAL LEVEL HACKATHON REPORT

International Society of Automation VIT Pune organized 'INGENIOUS 2022 - A National Level Hackathon' from 18th April 2022 to 29th April 2022. The event was sponsored by the ISA Pune Section and partners such as RigBetel Labs (Title Sponsor and Merchandise Partner), CEOP's BHAU Institute (Ecosystem Partner), and SMN Events (Aesthetics Partner). The final round was held at Vishwakarma Institute of Technology, Pune and it was followed by project EXPO and Award Ceremony. The event featured 20 finalists' teams presenting their projects in the EXPO visited by start-up funders, an incubation cell, technocrats, faculty members, and students. It was a sheer delight to have the CEO of BHAU Institute and the President of the ISA Pune Section as the day's chief guests.

There were 90+ teams participated across the country. Participants identified a variety of problem statements being faced under domains like Robotics and Automation, Internet of Things, Vision Based Systems, Data Science (AI/ML) and Augmented/Virtual Reality. The "Abstract Submission Round" was the first round of the Hackathon, followed by the "Idea Briefing Round," from which the final 20 teams were shortlisted. Domain experts who mentored and judged the teams were Mr.Pranshu Tople , Mr.Prateek Nagras ,Mr .Suyash Inamdar, Mr. Gaurav Vikhe and Mr. Lalit.

Students were graded based on criteria such as design innovation and novelty, project realization/feasibility, prudent use of components/tools and innovative choices made, project execution, and project demonstration. The hackathon was won by Team SAM from Pune, who received a prize of Rs. 30,000. The first runner-up, Team Josephites from Chennai, received a prize of Rs. 20,000. Team Socialites from Pune finished second runner- up position and received a prize of Rs. 10,000. Along with these, Team -!404 from Bangalore finished third runner-up and Team MED from Mumbai finished fourth runner-up. The event was a grand success under guidance of Prof. Dr. Shilpa Sondkar(Head of Department) and Prof. Kapil Mundada(Faculty Advisor). Sanket Veer (President, ISA VIT Pune) lead the organising committee.

Satellite Building Workshop

Name of The Event: Satellite Building Workshop Workshop

Date: 10th to 28th February 2022

Mode: Online

No. of students participated: 120+ across the India

No. of Faculty participated :1

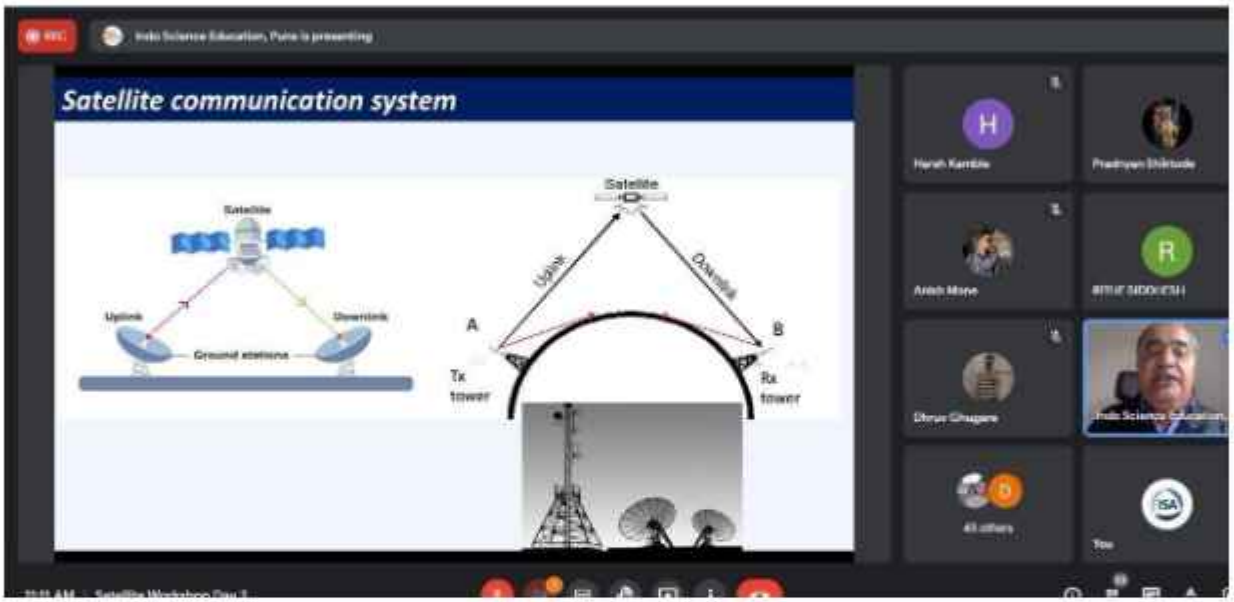
ISA VIT Pune student Section conducted an online workshop on Satellite Building Workshop Phase 1 staring from 10 February 2022 to 28 February 2022. Google Meet platform was used for the same. It was a 7 day workshop and was conducted by ISRO and IUCAA Scientists. Various topics like Remote sensing of earth and other planets, Launch Vehicles, Towers in sky communication and navigation were covered. There were 100+ participants who registered for this workshop. All the participants were engaged thoroughly through the whole workshop and got a chance to interact and ask questions to the scientists. Participant feedback was outstanding, and the event was quite successful.

The sessions were theoretical and interactive. It was a huge pleasure to here from the great scientists worked in various missions for India. The instructors shared various incidents and experiences during the sessions and were very helpful for students to grasp things easily.

About the Speakers:

- Mr.Ratan Singh Bisht – Former ISRO Scientist,Former team of IUCAA
- Mr.Bhagirath Mankad- Former ISRO Scientist
- Mr.Vishnu Lal – Ex-Group director MSSG ,Vikram Sarabhai Space Center,Trivandrum.
- Mr.C.M.Nagrani-Former ISRO Senior Scientist ,Space Application Center.
- Mr.Satish Rao- Former scientist space application center Ahemedabad

Mr.Jayant Joshi – Ex Division Head & Associate Project Director ,INSAT & GSAT satellites.



Android App Development in Flutter Workshop

Name of the Event: Android App Development in Flutter

Date: 29th, 30th and 31st October 2021

Mode: Online

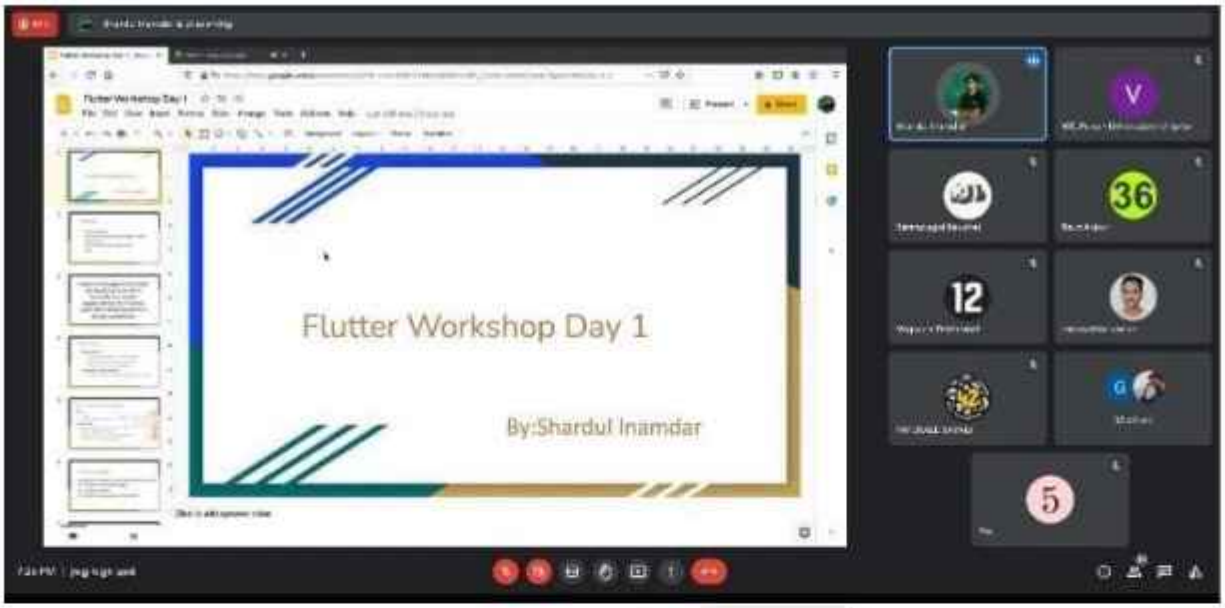
No. of students participated: 40+

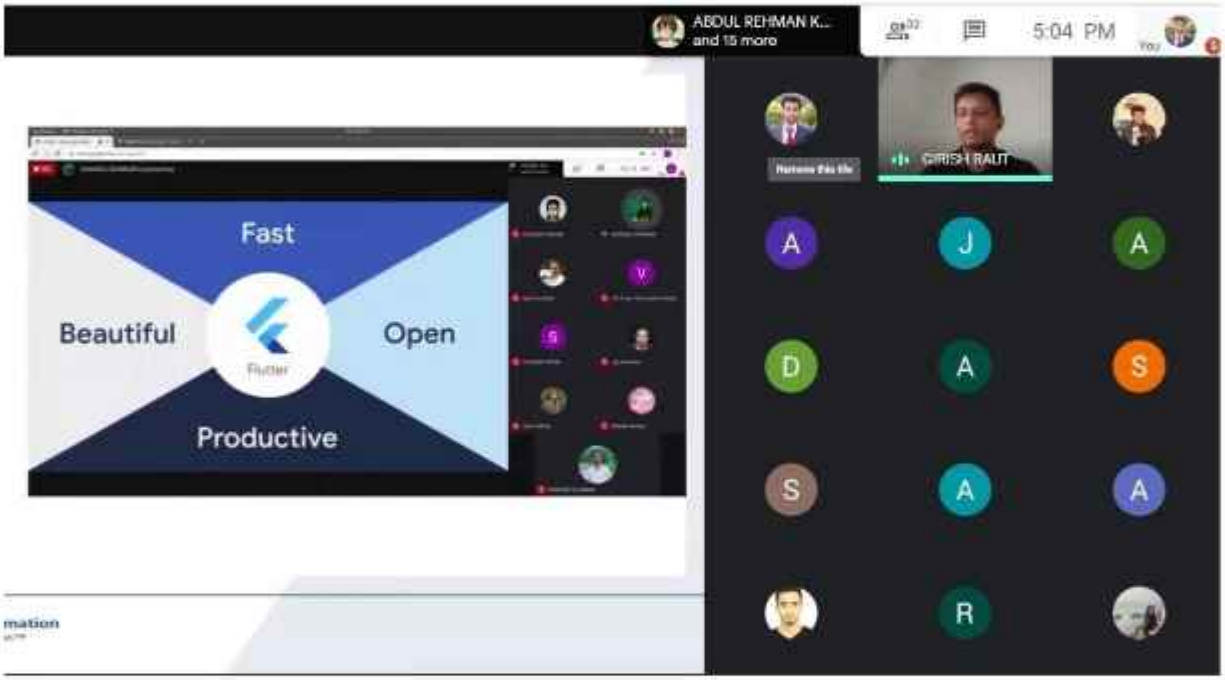
No. of Faculty participated: 1

ISA VIT Pune student Section organized a three-day online workshop on Android Application Development on 29th 30th 31th of October 2021. Whole workshop focused on developing the programming skills and needful for the android application development. Participants of the workshop gained hands-on coding experience for app development. It was an interactive session with important Q n A rounds conducted throughout the event. Instructor for the event was Mr. Shardul Inamdar. The workshop held virtually via google meet.

The schedule for the workshop is was follows –

Opening Ceremony (29th October)	19:00 to 19:15hrs.
30th 31th October 2021	09:00 to 13:00 and 16:00 to 17:00 hrs.
Closing Ceremony (31th October)	17:00 to 19:00 hrs.


Flutter Workshop Day 1
By:Shardul Inamdar


ABDUL REHMAN K...
and 15 more
5:04 PM
Fast
Beautiful
Open
Productive
Flutter
GIRISH RAUT

Industry Visit at Systech Solutions

Name: Systech Solutions

Date of Visit: 27Th November 2021

No. of Participants: 35

No. of Faculty participated :1

Industry Profile

The Company has started in the year 2006, at Pune (Maharashtra, India). "Systech Solutions", is one of the leading names, engaged in manufacturing and supplying a wide collection of Control Panel Cabinets. They also offer Design and Drafting, Graphics Design, Engineering Services, Panel Wiring, GA Wiring, and Testing, etc. Products offered by them are effective in catering to various requirements of heavy-duty industries. These are manufactured using optimum quality raw material and sophisticated technology in order to meet international standards. Products offered by them are widely appreciated for their features like Maximum Accuracy, Easy to use and Install, Shock-Proof Finish, Resistant to fire. As per the varied requirements of clients, these can be availed by them in both standards as well as in customized specifications. Apart from this, they have established a wide distribution network all across the nation. They have a hard-working team of highly skilled professionals who have gained immense expertise in their respective fields of operation.

Their effective team is deeply indulged in manufacturing high-quality products for our valuable clients. Some of their esteemed clients were Honeywell Automation Ltd., Invensys Ltd., Emerson India, SKF Engineering Ltd., Amber Group India., Forbes Marshall, and Petrofac India.

Description of the Visit:

On the 27th of November 2021, members of ISA VIT, Pune. Along with Core members of ISA, VIT Pune visited Systech Solutions. The event started around 10 am. Students arrived were divided in two groups. Both the groups were taught about PLC panels their hardware components, electrical supply requirements. They also showed the PLC installation process. There were different types of PLCs and PLC they showed the PLC selection process. They gave detailed knowledge about PLC Panel components. They gave knowledge about the safety protocols while visiting the industry. They showed some instruments which were highly useful during the commissioning process. They showed the detailed procedure of PLC commissioning. This was very helpful for the students to understand the development, working, and updating of such knowledge and the technologies used by the developers.

C Programming Workshop

Name of the event : C programming workshop

Date : 28th to 30th December 2021

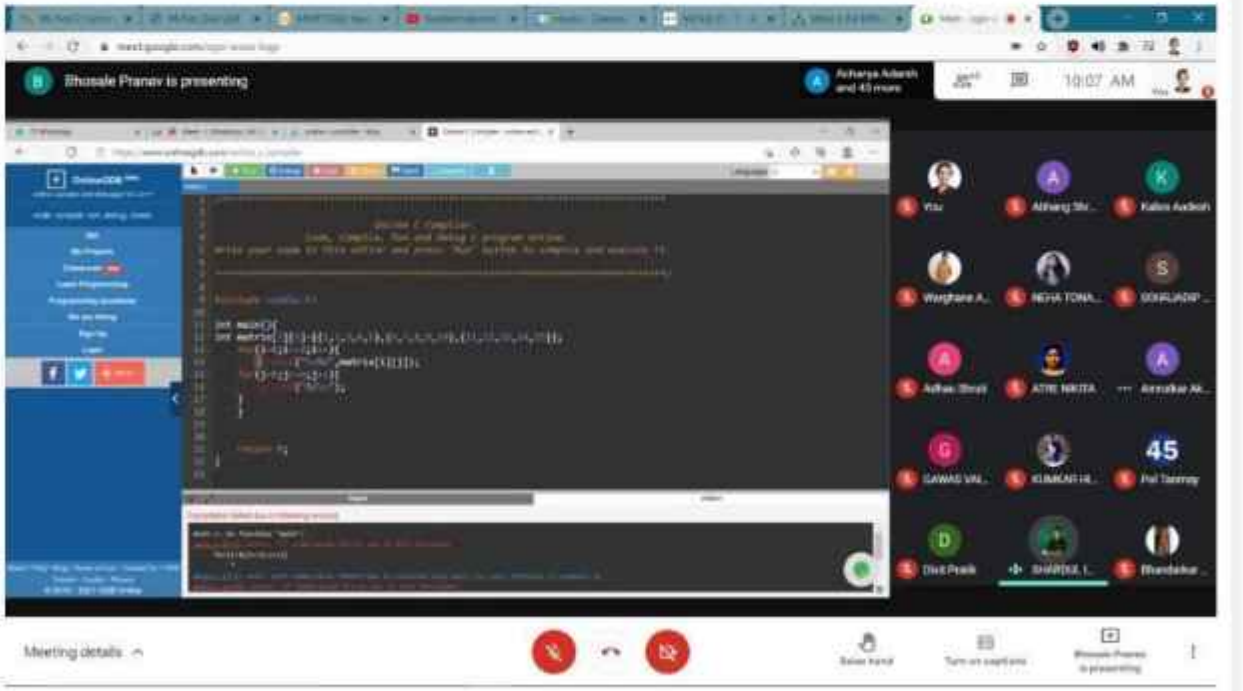
Mode : Online

Platform : Google meet

No.of students participated : 60+

No. of Faculty participated :1

ISA VIT Pune conducted an online workshop on c programming from 28th December to 30th December 2021, 4 hours each day. The main objective of the workshop was to clear basic concepts of C programming and develop student's interest in coding. Participants of this workshop gained the knowledge of programming and were able to solve all coding problems given to them. The workshop was interactive with many Q&A sessions throughout 3 days. We also gave practical application of C programming in this workshop.



Python Programming Workshop

Name of the event: Python programming workshop

Date: 6th and 7th January 2022

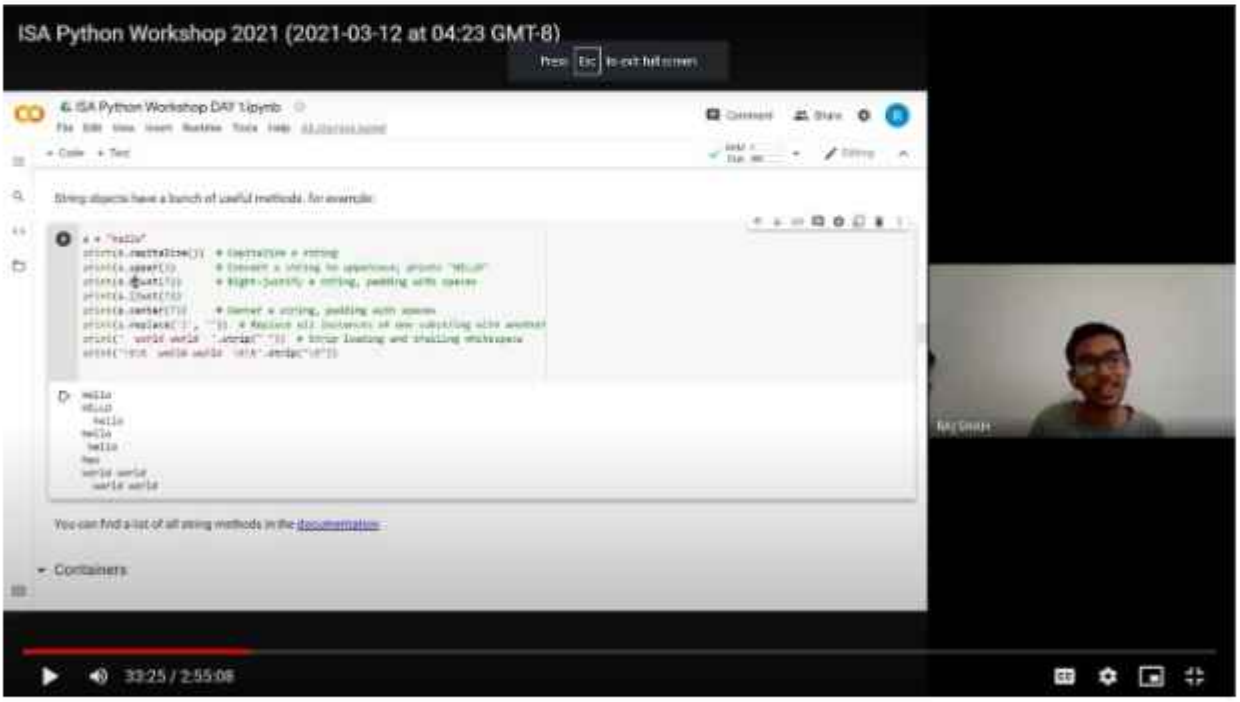
Mode: Online

Platform: Google meet

No.of students participated : 103+

No. of Faculty participated :1

ISA VIT Pune conducted a workshop on python programming in online mode on 6th and 7th January 2022, 3 hours both days. More than 100 students participated actively in the workshop. Google meet was the platform for the conduction of workshop. The main objective of the workshop was to deliver a well-organized and a knowledge based workshop which can help the students to get acquainted with basic concepts of python and some advanced coding. Name of the instructor of this workshop was Pratik Jadhav. We have covered points like basic concepts of python, improving our coding skills and hands on teaching learning experience in this workshop. Whole workshop was interactive and interesting. Student got the knowledge of python programming language and also we got a chance to interact with the students .



IOT WORKSHOP

DATE: 21/03/22 TO 23/03/22

MODE: ONLINE

No. of students participated: 70+

No. of Faculty participated :1

Description: Practical knowledge of IOT was discussed in brief by the industry experts. Also live interaction session with the experts was held. IOT's industrial and automation applications were explained in absolute detail. Learning from the workshop from Basics to mastering it.

TOPICS COVERED:

ESP 8266 WIFI MODULE

Thinger IOT platform

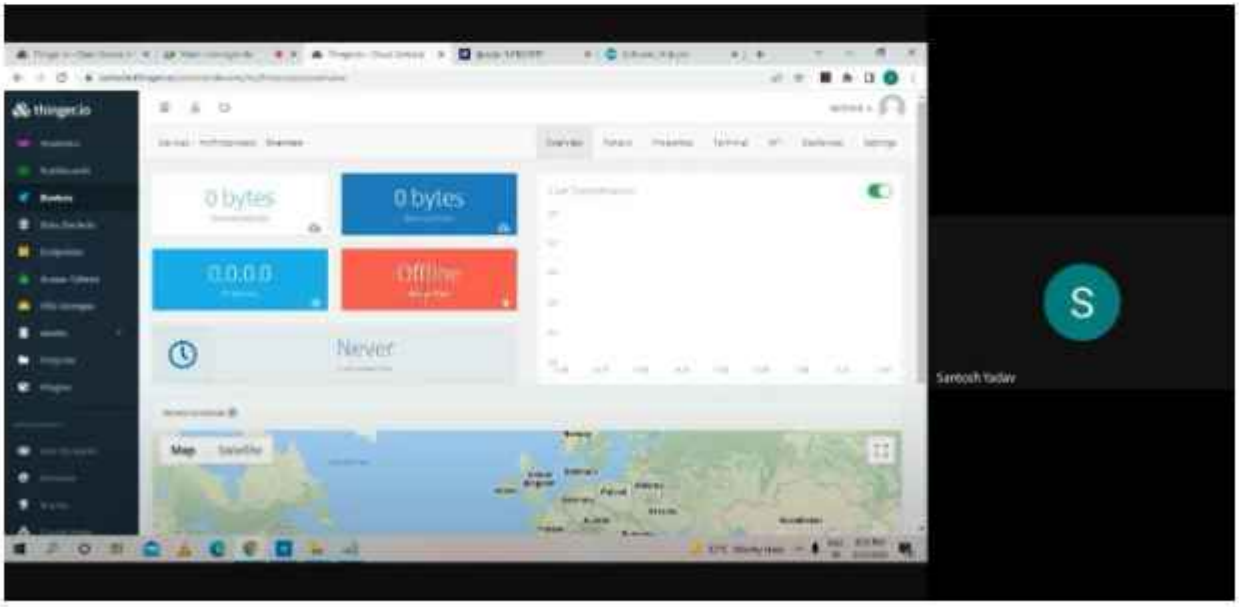
MQTT platform

Mobile App Connectivity for IOT

Data uploading on cloud using WIFIF

IOT based application project

End to End Project Implementation



MAKING EFFECTIVE & PROFESSIONAL PRESENTATIONS

DATE: 17 MARCH 2022

MODE: ONLINE

PARTICIPANTS: 50+

PLATFORM: GOOGLE MEET

CHEIF GUEST: Mr. NITIN KIROSKAR

No. of Faculty participated :1

DESCRIPTION:

ISA VIT Pune bought an essential session on "Making Effective & Professional Presentations" by Mr. Nitin Kirloskar sir- 'Head-Corporate Marketing at Forbes Marshall for over 27 year . Active member of ISA ACARD holding the Marketing Chair. In this session students were given an idea of how to make an effective presentation that would influence the audience, minute details like color combination selection for the ppt, body language of the presenter, etc. were also discussed. The students found this session very effective and all their questions were satisfactorily by the speaker.

ISA SCHOLARSHIP SESSION

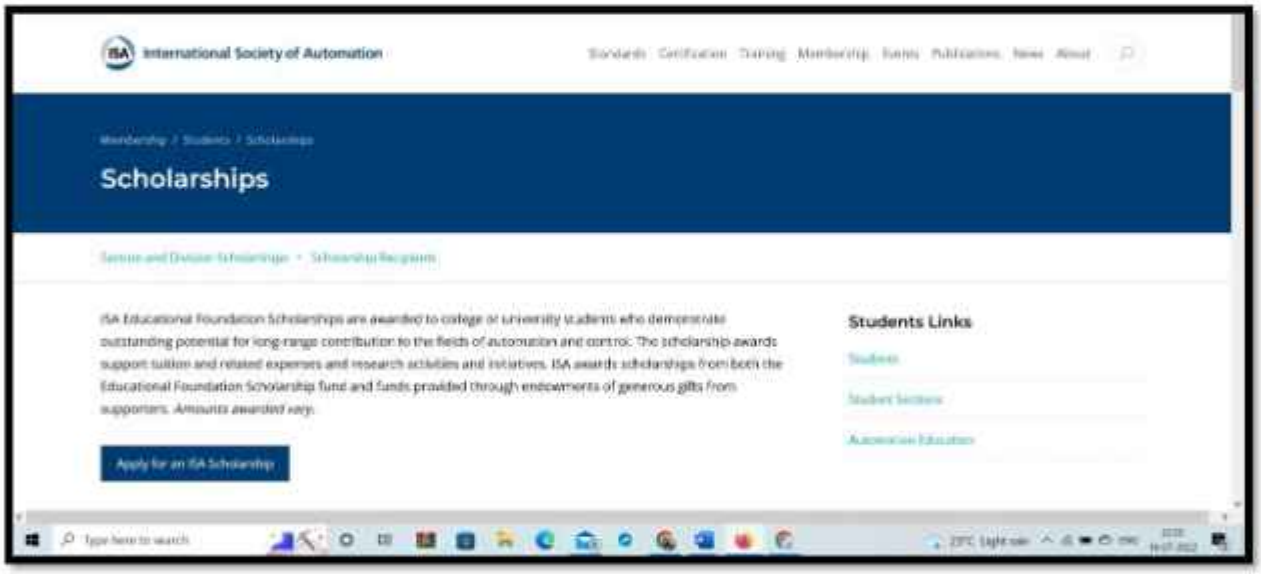
MODE: ONLINE

PARTICIPANTS: 40+

PLATFORM: GOOGLE MEET

DESCRIPTION:

ISA VIT Pune conducted an essential session on the benefits of ISA Scholarship. In the session the students were detailed about the procedure to get the scholarship, the requirement for it, scholarship benefits, a brief about ISA membership benefits, also Various divisions of ISA were introduced to them and various scholarships which they provided. Last 30 mins we had the question answer session where the speaker answered all the questions and the doubts of the students were cleared.



Industrial Visit ISRO Ahmedabad

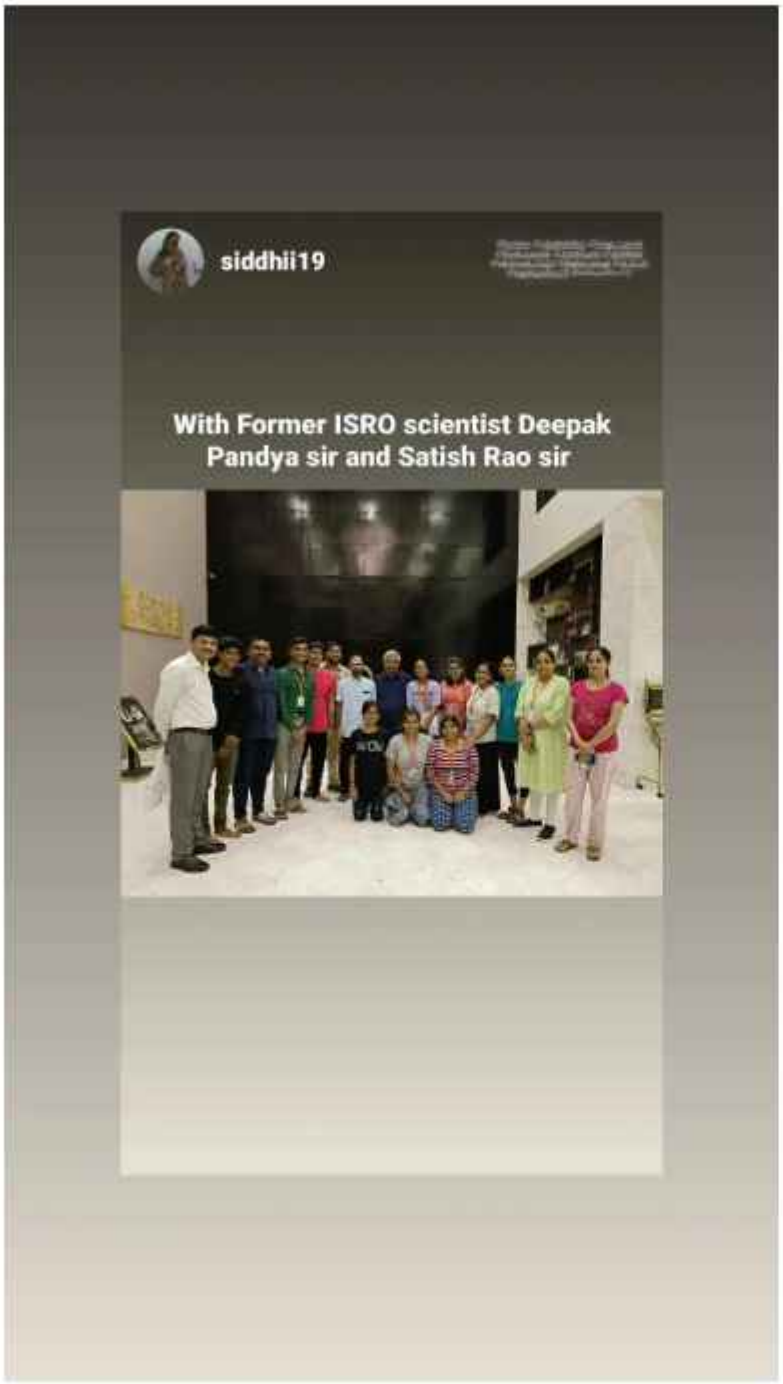
MODE: OFFLINE

PARTICIPANTS: 30+

PLACE: Ahemedabad

ISA VIT Pune organized an industrial visit at ISRO Ahmedabad on 25 April to 5 May. During this visit, the visitors are able to interact with senior ISRO scientists. This visit also allowed to visit newly launched Robotics lab and aquarium at center

City.


siddhii19
With Former ISRO scientist Deepak Pandya sir and Satish Rao sir

ISRO
physics_always
VSSC
VIKRAM
SPACE
DAY 2
INTERVAL

saampuu_