



ASIET
ADI SHANKARA INSTITUTE OF
ENGINEERING AND TECHNOLOGY

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VISION

Progressive through quality education and evolve into a centre for academic excellence in the field of Robotics and Automation

MISSION

To provide supportive education environment for value added education and continuous improvement

To develop socially responsible engineers with technical competence leadership skills

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ROBOTECH

ISSUE - 6 JULY-AUGUST 2021 MONTHLY NEWSLETTER

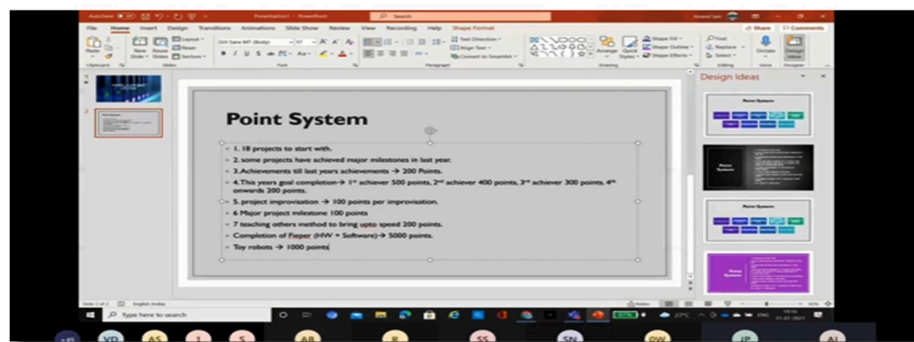


EMBRACE THE FUTURE TECHNOLOGY

ISA FIEPER PROJECT-Participation of S2 RA students

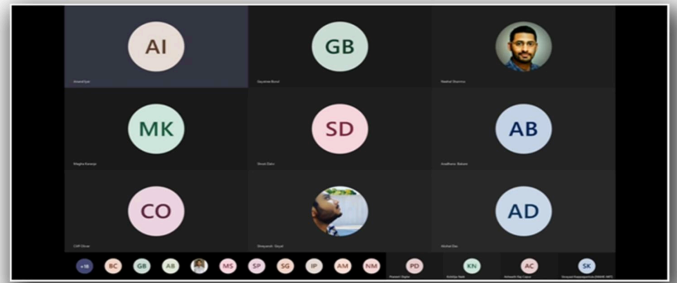
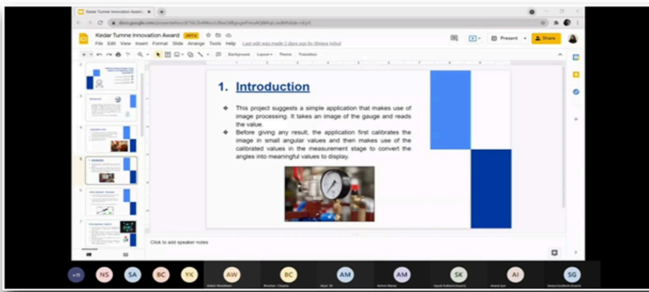
FIEPER is a project promoted by ISA and it is basically a field robot which stands for Field Operated Robot. The first event was FIEPER 1.0 Award ceremony. The Event started with an introduction to innovative consulting, company behind the FIEPER project sponsored by ICI. The core objectives and the projects of the company are in Artificial Intelligence (AI) and Machine learning (ML). They provide Innovative consulting works related to automation technology to all types of companies.

FIEPER project's first year achievements were delivered through video presentations. Achievements include working models of robots performing object analysis, button pressing, reading gauges and one of the most advanced flare analysis software in the world using only a camera. All the projects submitted various institutions were acknowledged and awards were distributed. The year one project was a success by the help of various mentors and students from colleges from all over India.



FIEPER 2.0

Concept of Fieper 2.0 is the development of completely remote robots controlled by Virtual Reality. It include approaching industries and find funding for project technology and establishing new standards. It will also made sure that the students will get due rewards based on points-based ranking system for their technology and ideas. Huge emphasis is given on transferring of knowledge from last years participants to new participants so that no time is wasted on catching up to latest technology.

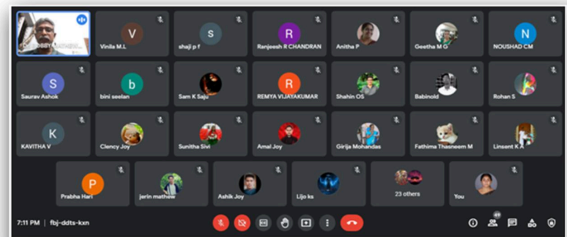


After this event, it is decided that there will be weekly meetings conducted every Saturday to spread the knowledge required for the project.

PTA Meeting of Semester 2

The PTA Meeting for S2 Robotics and Automation batch was organized by the class tutors on 3th August 2021. Principal, Dr. Suresh Kumar V presided the meeting via Google Meet.

He introduced the new HOD for our department, Dr. Bobby Mathews C to the parents. Dr. Bobby Mathews also talked about himself, his working experiences and finally about the future scopes of the robotics and automation industry. The other Faculty members also discussed about the S1 University exams, academic calendar of S2 and the upcoming S2 Internal Examination.



Curricular activities

S1 University Examination

The KTU University Examination for S1 students of Robotics and Automation Engineering was held on offline at the month of July 2021 from 12th to 30th. The examination was in offline mode for 2.15 hours.

S2 Internal Examination - I

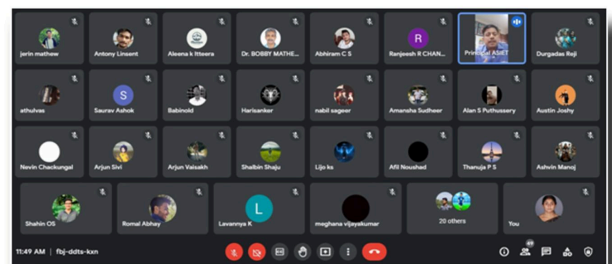
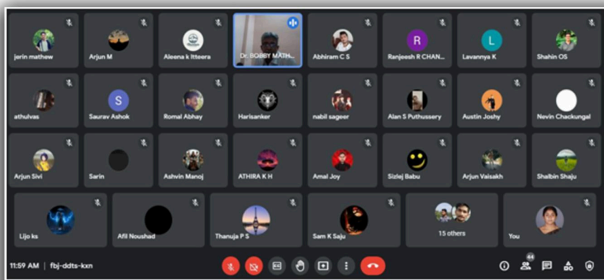
The first Internal examination for S2 RA students was conducted in online mode from 14th August 17th August 2021 via Google meet.

TechTalk Series on trending Industry 4.0: Real-Life Implementation Case Studies.

Students of S2 RA participated in the Techtalk series on the topic "Industry 4 .0 End to End Architecture and Implementation for VRLA Battery Production and Testing" covered during the session : 4 PM to 6 PM on 28 August 2021

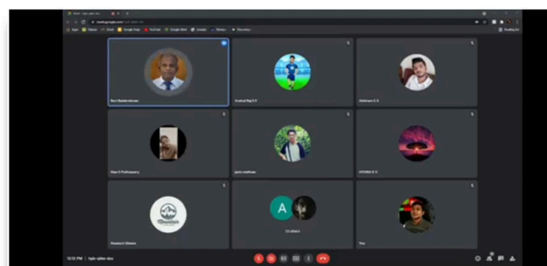
STUDENT-PRINCIPAL Interactive Session

A student- principal interactive session was conducted online on 13th August 2021 via google meet. The Principal, Dr. Suresh Kumar P and our new HOD, Dr. Bobby Mathews C talked about the ongoing S2 Series exams and the student's opinion for the same. The students had a wonderful interaction with the new HOD.



ISA Student Interactive Session

The ISA Executive board member, Mr. Ravi Balakrishnan held an open ISA student interactive session on 27th August 2021 via Google Meet. The session was held to clear all the doubt from the students regarding the FIEPER projects and their Theoretical part



Latest developments in RA

Astrobee Will Find Astronauts' Lost Socks

At some point in the not too distant future, NASA wants to put a permanent space station called Gateway in orbit around the moon. Unlike the International Space Station with its permanent astronaut residents, Gateway will mostly be a transit point, a staging area for astronauts heading to the lunar surface or, eventually, to Mars. NASA expects that Gateway will spend a lot of time empty (it may only be crewed for a total of six weeks a year), but it'll need to be ready to welcome astronauts whenever they arrive, offering a safe, warm, and air-filled space. So who's going to keep an otherwise empty space station ship-shape and Bristol fashion? Robots, that's who!



An Army of Grain-harvesting Robots Marches Across Russia

The field of automated precision agriculture is based on one concept—autonomous driving technology through GPS navigation. Fifteen years ago, when high-accuracy GPS became available for civilian use, farmers thought things would be simple: Put a GPS receiver station at the edge of the field, configure a route for a tractor or a combine harvester, and off you go, dear robot!



EDITORIAL TEAMS

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