

# Department Highlights

## AY 2016-17

### 1. Visit of Japanese Delegates from Mitsubishi Electric in the department on 15<sup>th</sup> Feb 2017

On 15<sup>th</sup> Feb 2017, Mr. Tokunaga, General Manager, Mitsubishi Electric, Japan visited Instrumentation Engineering Department.

#### Few glimpses of the event



Felicitation of the Mr. Tokunaga at the hands of Head of Department, Dr. Shilpa Sondkar



Demonstration of students projects to Mr. Tokunaga



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## 2. Three Days State Level Workshop on “Biomedical Devices, Signal and Image Processing: Challenges and Opportunities organized in the department from 23<sup>rd</sup> Feb 2017 to 25<sup>th</sup> Feb 2017

Department of Instrumentation Engineering organized three day State Level Workshop on “Biomedical Devices, Signal and Image Processing: Challenges and Opportunities organized in the department from 23rd Feb 2017 to 25th Feb 2017.

The function was inaugurated by Mr. Paknikar, Director, Agharkar Institute and Guest of Honor for Inaugural function was Prof. Dr. Virendra Bhavsar, Brunswick University, Canada.

Following eminent experts were invited as speakers for the workshop

- i. Mr. Sanjeev Kubakaddi, ITIE, Konwlede solutions, Bangalore
- ii. Dr. Niranjana Khambete, Deenanath Mangeshkar Hospital, Pune
- iii. Dr. Rahul Kodgule by Chest Research system, Pune
- iv. Mr. Mukund Joshi, Pridex Medicare
- v. Mr. Ameya Mundhe and Mr. Rahul Chavanke, ARK solutions
- vi. Mr. Makarand Deo , Norfolk State university ,USA (Skype call)
- vii. Dr. Manasi Patwardhan, Dean R&D, VIT, Pune
- viii. Dr. Siddharth Jabade, Dean International relation, VIT, IPR
- ix. Dr. A. V. Deshmukah, Principal, Baja Institute, Wardha

Around 40 students and academicians took benefit of the workshop.

### Glimpses of Inaugural Function



Felicitation of Guest of Honor Mr. Paknikar by Dean Quality Assurance, Prof. Ashutosh Marathe and Head of Department Dr. Shilpa Sondkar



Felicitation of Chief Honor Dr. Virendra Bhavsar by Dean Quality Assurance, Prof. Ashutosh Marathe and Head of Department Dr. Shilpa Sondkar

### **3. State Level Project Competition in association with International Society for Automation held on 6<sup>th</sup> April 2017**

Instrumentation department of Vishwakarma Institute of Technology, Pune, had organized a state level project competition in association with International Society for Automation (ISA), Pune Section for all the final year students from the circuit branches of Engineering on April 6<sup>th</sup>, 2017. The main objective was to provide a platform for students to showcase their innovative engineering through their final year projects.

28 teams from different institutes participated in the competition. Students from BVB college of Engineering, Hubli, VIT college Nagpur and MIT college, Sinhgad college, D Y Patil College, VIT college from Pune participated in the competition.

The participants were fortunate to be judged by highly qualified stalwarts from the instrumentation industry. The judging panel included,

- i. Mr. J. G. Bapat, Forbes Marshall, Pune
- ii. Mr. Ramani Iyer, Forbes Marshall, Pune
- iii. Mrs. Sujata Tilak, Ascent Intrllimation, Pune
- iv. Mr. Sandeep Shroff, Consultant and IIOT Evangelist
- v. Mr. Anoop Dasgupta, Professional Consultant
- vi. Mr. Amit Saxena, Alliance Solutions, Pune
- vii. Mr. Satish Pathak, Samiep Technology Innovations
- viii. Mr. Milind Jape, Consultant

Students from RMD Sinhgad School of Engineering, Warje, Pune having project title AGRICULTURAL AUTOMATION WITH DISEASE MONITORING SYSTEM, won the first prize. Students from B. V. B. College of Engineering and Technology, Hubli having project title SMART PARKING ON TIME SHARED BASIS- SHARE-PARK-EARN, won the first runner up prize and second runner up was won by students from MIT Academy of Engineering, Pune for project title POSITION CONTROL OF FLEXIBLE LINK MANIPULATOR IN PRESENCE OF DISTURBANCES.

Two appreciation prizes were also awarded. First appreciation prize was awarded to students of Vishwakarma Institute of Technology, Pune, for the project titled 3D PRINTER FOR RAPID PROTOTYPING. Second appreciation prize was awarded to students of MIT Academy of Engineering, Pune for project titled DISTURBANCE REJECTION OF SERVO SYSTEMS USING CLASSICAL CONTROL THEORY.

**Few glimpses of the event**



**Judges reviewing the projects in different labs**



**Felicitation of the winners at the prize distribution**



## AY 2017-18

### 1. Advanced Factory Automation training conducted by Mitsubishi on 27<sup>th</sup> and 28<sup>th</sup> Nov 2017



Head of the Department Prof. (Dr) S.Y.Sondkar felicitating the chief Guest Mr. Muttappa Lalaoundi from Mitsubishi electric pvt .Ltd

The Department of Instrumentation Engineering of Vishwakarma Institute of technology conducted a training program on “**Advanced factory Automation**” by **Mitsubishi Electric India Pvt. Ltd** at Department of. Instru Engineering Room no: 4203A

Training Program was organized with the prior permission and under guidance of honorable Prof (Dr). R. M. Jalenkar Sir (Director, VIT), Prof. (Dr).S.Y.Sondkar (Head of Instru Engg Dept) and Deputy Head Prof.J.A Gaikwad and hard efforts of Prof. A. B. Kadu (Subject teacher).



Deputy Head Prof. J.A.Gaikwad felicitating the chief Guest Santosh Kulkarni from Mitsubishi electric pvt .Ltd

### 2.Students conference on Industrial Internet of Things, at Vishwakarma Institute of Technology, Pune, January 13th, 2018

The Students conference on Industrial Internet of Things (IIoT) was by organized by Vishwakarma Institute of Technology (VIT), Pune and International Society of Automation (ISA), Pune Section and hosted by Instrumentation Engineering Department in Sharad Arena, Vishwakarma Institute of Technology (VIT), Pune. This conference provided a huge opportunity to students to understand IIoT and its applications and bridge the gap between industry and academia. The conference received an active participation from the students with more than 240 registrations from 6 colleges in Pune. The

conference began with a heart-warming welcome speech by Dr. Shilpa Sondkar, Head of the Department, Instrumentation Engineering, VIT, Pune, thanking ISA for organising the conference and providing such great opportunity to the students to learn and explore more about the subject.

Mr. J. G. Bapat, Vice President, ISA Pune section, gave a brief introduction of ISA, which began as Instrumentation Society of America in 1945. He also proudly mentioned that ISA has taken a leap since and spread in US, India, Bangladesh, Japan, and few more eastern counties. Encouraging the students to come up with new ideas for projects, he said, "There is lots and lots to gain but the access is your own". Dr. Rahul Waikar, Dean of Academics, VIT, Pune, indicated that IIoT is the next industrial revolution and has the potential of affecting day to day life to a great extent. "The next decade will be of Instrumentation engineers because of IoT", said Dr. Ganesh Dongre, Dean of R&D, VIT, Pune, raising the spirits of the students. He also inspired the students to see IoT as a great opportunity for advancement in technology. Mr. Ramani Iyer, DVP, ISA shared his personal experiences and motivated the students to understand the true meaning of Instrumentation and its connection to the society. Inspiring the students to stay determined in life, he also said, "Automation is going to touch our lives like never before". He also explained a few existing applications of automation in industries and incentivized the students to consider IoT as a means to serve the society.

Mrs. Sujata Tilak, President, ISA-Pune Section; MD Ascent Intellimation started the Session-1 about IIoT Architecture & Applications stating that IoT is possible because of all the Technology coming together. She also shed light on how the world is changing in ways unthinkable and the ways in which IoT is being implemented across the globe. Session-2 by Mr. Abhijeet Mhetre, VP, Marketing, Altizon, particularly focussed on directing the students for jobs in Industry 4.0 Era. "We live, breathe, walk and talk technology", he said implying that everything is getting digitized forming an IoT ecosystem leading to 'tsunami of data', transforming the industrial world upside down. He also urged the youths to include IIoT in business and work opportunities to innovate at every touch point. He also inspired the students to be apt to solve problems not yet existent and instilled great enthusiasm among the students informing them of the new job opportunities coming up. "Sooner you begin sooner you can acquire the skills", Mr. Mhetre mentioned stirring the students to get into actions and create real asset worthy portfolios. Session-3 embarked on 'Smart Sensors and Assets' signifying that the demand driven manufacturing and the customer centric markets are facilitating the business based on IoT. Mr. K V Rehani, KVR Consulting, concluded asking the students to set high goals and achieve great success in their journeys. The case study presented by Mr. Vishal Pansare, Business Manager, Logicon Techno solutions, where he shared the challenges faced by him during the journey had a great influence on the students and led them to contemplate on projects for IIoT. Mr. Pavan Pawar, Head- Implementation, Ascent Intellimation, talked about the second case study on Brownfield Installations- an export oriented factory in Chakan, where he faced a few problems from the working force, trying to get them to accept the changes. He also enlightened the students about the ZID plant Monitoring System using IIoT in Telangana District as an attempt to make the environment cleaner.

The Panel discussion was a very intriguing session making the seminar a promising platform for the students allowing them to easily approach the dignitaries present and satisfy their curiosities.



Experts for Panel Discussion

Mr. K V Rehani, Mr. Abhijeet Mhetre, Mrs. Sujata Tilak, Mr. Pavan Pawar, Mr. Vishal Pansare and Dr. Vivek Deshpande



Students interacting during Panel Discussion



After the lunch began the much-awaited IIoT Competition where the students demonstrated project ideas based on IIoT covering various sectors. These ideas and presentations inspired the audience to a great extent and also interested the judges greatly. An event is not possible without the efforts of volunteers. Certificates and gifts were distributed among the volunteers. And the results of the competition were announced. Four of the seven participants were rewarded for their exceptional thinking. Vijaya Poola from Cummins College of Engineering for Women, Pune won the first prize for project titled IOT based Fruit Processing. The second prize was won by Avadooth Gawali from Government College of Engineering, Awasari for project titled Smart inventory management. Rudrani Dhaye and Maaz Shaikh from AISSMS Institute of Technology, Pune won the third prize for project titled Infant Baby warmer, along with Pushkar Marathe from Vishwakarma Institute of Technology, Pune for project titled Old is Gold - A Senior Citizen Interface.



IOT Based project competition

Right: Judges and experts Left: Participants presenting their projects

Below: Felicitation of Prize winners



Pushkar Marathe from Vishwakarma Institute of Technology, Pune accepting prize from ISA President Mrs. Sujata Tilak.

Vijaya Poola from Cummins College, Pune accepting prize from Mr. Ramani Iyer, DVP ISA Pune Section.



Avadooth Gawali from Government College of Engineering, Awasari accepting prize from Mr. Ramani Iyer and Mr. Maknikar.

Rudrani Dhaye and Maaz Shaikh from AISSMS Institute of Technology, accepting prize from ISA Pune Section members.



The Conference was a huge success and served the purpose of enlightening and motivating the students to understand IIoT better and proved to be a great platform for presenting ideas.

At the end Prof. Archana Chaudhari, ISA Faculty Coordinator gave the vote of thanks on behalf of VIT, in her speech she mentioned how students from different colleges worked together and how well does ISA Pune section helps as always to college for implementing different initiatives.

### **3. State Level Project Competition in association in with International Society for Automation on 5<sup>th</sup> April 2018 in Instrumentation Engineering Department**

The department of Instrumentation Engineering, Vishwakarma Institute of Technology, Pune in association with International Society of Automation Pune Section organized State Level Project Competition on 5<sup>th</sup> April 2018.

The competition received entries from around 30 project groups. 25 project groups were shortlisted and 19 project groups participated in the project competition. The projects groups represented various engineering colleges from in and around Pune.

#### **Glimpses' of the competition**



Participants of the project competition demonstrating the projects to the judges in various labs

Prize distribution was carried out at the hands of Dean Research and Development Dr. Ganesh Dongre and Head of Department Dr. Shilpa Sondkar and Vice President of ISA District 14, Mr. Ramani Iyer.



Dignitaries on the dais for prize distribution function of State Level Project competition

ISA members Mr. Satish Pathak, Mr. Anand Iyer, Mr. Rohit Joshi graced the occasion as judges along with Dr. Manisha Mhetre and Prof. Archana Chaudhari as judges for the competition.

### Felicitation of Dignitaries



Dean Research and Development Felicitating Mr. Ramani Iyer, Vice President, ISA District-14



Dean Research and Development Felicitating Mr. Rohit Joshi, ISA Pune section member and one of the judges for the competition



Head of Department Dr. Shilpa Sondkar felicitating Mr. Satish Pathak, ISA Pune section member and one of the judges for the competition



Head of Department Dr. Shilpa Sondkar felicitating Mr. Anand Iyer, Newsletter chair, ISA Pune section and one of the judges for the competition

Students from Cummins college of Engineering, Pune Vaidhei Pawar, Vijaya Poolla, Devhutti Somwase and Ameya Manure won the first prize for the project titled, Automatic Fruit Peeling Machine.

The first runner up was won by students Akshay Shinde, Prashant Raut, Shantanu Gokhale, Siddesh Vaidya and Soham Naik from Flora Institute of Technology, Pune for project titled Development of Automated Solar Panel Cleaning System.

The second runner up was won by students of AISSMS College of Engineering, Pune Anurag Lambhor, Arya Polas and Aditi Bachhav for project titled Vaporized Gasoline Fuel.



Participants of the State Level Project Competition



Winners of the project competition for project titled Automatic Fruit Peeling Machine



First runner up for project titled Development of Automated Solar Panel Cleaning System from Flora Institute of Technology, Pune



Second Runner up's for project titled Vaporized Gasoline Fuel From AISSMS College of Engineering, Pune

#### **4. Student's conference held in the Department**

Instrumentation Engineering Department hosted student's conference on 28<sup>th</sup> April 2018 in the department. The conference was inaugurated by Honorable Director. The Chief Guest for the conference was Mr. Rohit Nayak, distinguished Alumina of Instrumentation Engineering Department. Rohit Nayak is among the top entrepreneurs under 30 years in Forbes List.





Inauguration of Conference Proceedings by Hon. Director Prof. Dr. Rajesh Jalnekar, Mr. Rohit Nayak, Chief Guest, Prof. Ganesh Dongre Dean Research And Development and Dr. Swati Shilaskar, Dean Student Counselling



Felicitation of Guest and Speech by Chief Guest Mr. Rohit Nayak

Students from Second, Third, Final Years and First Year M. Tech presented their technical papers across seven tracks in the department.



## AY 2018-19

### 1. Inauguration of IIOT platform set up by Ascent Intellimation worth Rs. 800000/- in the department on 26<sup>th</sup> Oct 2018.

#### Glimpses of the Event



Signing of MOU with Mrs. Sujata Tilak CEO Ascent Intellimation



Felicitaiton of Mrs. Sujata Tilak CEO Ascent Intellimation by Hon. Director Dr. Rajesh Jalnekar



Faculty of Instrumentation Department at inauguration



Inauguration in the lab



Welcome Speech by Head of Department Dr. Shilpa Sondkar



Speech by Mrs. Sujata Tilak CEO Ascent Intellimation

## AY 2019-20

### **1. Visit of Experts from Mitsubishi Electric in the Department on 11<sup>th</sup> Sept 2019**



Felicitation of guest by Dean Industry Relations and Head of Department with Faculty in Charge

### **2. Inauguration of Delta V Software platform set up by Emerson Export Engineering Center worth Rs. 1000000/- in the department on 18<sup>th</sup> Sept 2019.**



### 3. ISA intro meet and engineer's day celebration

On 18th September 2019, the department of Instrumentation and control engineering conducted an intro meet of the ISA VIT Pune chapter. It was followed by celebration of Engineer's day in Sharad arena. ISA VIT Pune chapter is a students' section which runs under the International society of automation. It is a technical society for engineers , technicians and students who study or work in the field of industrial automation.

Engineer's day is celebrated every year to commemorate the birthday of one of the greatest engineers in India, Sir Mokshagundam Visvesvaraya. To grace this occasion, we invited Mr. Abhay Bansod and Mr. Vinod Joshi as our chief guests. Mr. Bansod is the Director of Emerson Automation Solution, EEEEC Pune. He shared his own career path with us to explain the need of exploring till one finds his true interest. He mentioned one of his friend's life changing experience , about how an average student who faced enormous obstacles in his life, went on to become a very successful person in his career. Patience, determination and learning from your failures can take you to great places. He encouraged us to learn more and develop at least one hobby.

He certainly left all of us inspired at the end of his speech. With his simple words, he taught us to never stop trying and learn from your failures as it is just a first attempt in learning.

Our next chief guest, Mr. Joshi is an active member of the International Society of Automation. He briefed the audience about the benefits of being an ISA member.

ISA also conducted an elocution competition for the students of our department. The students had to choose any of the topics given to them and express their views. The winners were felicitated by our honorable chief guests. Participation certificates were given to all the participants.

With great enthusiasm and participation from the students and members of ISA, this event turned out to be a huge success. At the end of the day we felt great sense of pride that we were pursuing engineering. It definitely inspired us to take steps and work for the betterment of our society.

#### Glimpses of the Engineers Day and ISA Intromeet



