



In This Issue

- ❖ Message from Department
- ❖ Department Vision
- ❖ Placements
- ❖ Staff and Student Activities
- ❖ Workshops
- ❖ Alumni Interaction

Editorial Board

- ✉ Swapnil Chilap
- ✉ Dipesh Solanki
- ✉ Ajit Patil
- ✉ Shivani Suryavanshi



Editorial

We, the Instrumentation Department, wish to gradually rise to greater heights of successes, milestones being set high by our own previous achievements. To do that we are continuously striving towards bettering ourselves in all respects - personally and professionally. We present third issue of "INNOVETA" our newsletter with testimonies of our steps towards progress in 2017.

Vision of the Department

To contribute at National as well as International level for excellence in technical education and research in the field of instrumentation and control by creating proactive, noble personalities and integrated individuals who will use the knowledge and be fully dedicated to the progress of society.

"Innovation = Idea + Leader + Team + Plan"

Message from Department



Mrs. Nilima Warke
Associate Professor

INNOVETA is an excellent initiative of Instrumentation Department to ensure effective and transparent communication, including reporting on important events and major milestones in Instrumentation Department. It gives me great pleasure to inform you about our association with leading industries like L&T where during this year nearly 300 GETs/PGETs have been trained under “Prayag hands on training” on Instrumentation and Control module in our hi-tech process Instrumentation labs through collaborative efforts in our department in 12 batches.

Our department has conducted add-on course on “Integrated Automation” as a part of Campus Connect Initiative in collaboration with Automation Industry Association (AIA). Similarly, course on “LabVIEW- Core 1 and Core 2” has been conducted under VESIT-NI LabVIEW Academy in collaboration with National Instruments, Bangalore.

I appreciate the editors and contributors for bringing out this issue. Keep it up...!!!

Looking forward to more such activities in future also.

Department Domains

- ❖ Stochastic
- ❖ Process Automation
- ❖ Advanced Control Systems
- ❖ Biomedical Instrumentation
- ❖ Nuclear Instrumentation
- ❖ Embedded Systems
- ❖ Advanced Electronics

Department Activities

- ❖ NI - LabVIEW Academy
- ❖ VESIT - AIA CDC
- ❖ Training for L&T GET
- ❖ Summer Internship

Research Projects

Our department has undertaken some research projects that meet the requirements of industries and evolving technologies. Few of the ongoing projects are:

- ❖ Evaluation of Nuclear data for ^{241}Am , ^{54}Fe and ^{70}Zn .
- ❖ Fibre Optics in Industrial Applications
- ❖ High Speed Data Acquisition Systems
- ❖ Picosecond Programmable Delay Generator
- ❖ Low level Signal Processing
- ❖ High Resolution Spectroscopy System
- ❖ Reconfigurable ADCs
- ❖ Partial Discharge Analysis and Simulations
- ❖ High Resolution Timing Spectroscopy
- ❖ Random time interval generation.
- ❖ Precision and Sliding Pulse Generator.
- ❖ Data Reduction and Error Analysis for Physical Sciences.

“There's no elevator to success. You have to take the Stairs”

Placement Statistics

- ❖ No. of Students placed: 15+
- ❖ Eligible: 60

Internships

30+ students attended Internship programs in various industries

- ❖ RCF
- ❖ BARC
- ❖ ATI
- ❖ Reliance Energy - Dahanu
- ❖ Coca Cola, etc.

Entrepreneurship / R&D Projects

- ❖ Surface Adaptive Assistant BOT
- ❖ Voice Controlled Home Automation
- ❖ In plant and industrial communication
- ❖ Surface Adaptive Balancing Bot

Finishing school Training

Finishing school was conducted for students moving from third year to final year during summer from 18th July 2017 for one week by faculty of the department:

- ❖ Mrs. Kadambari Sharma
- ❖ Mr. Prasad Godse

Our Recruiters



LARSEN & TOUBRO

It's all about Imagineering

Technip

take it further.

accenture

High performance. Delivered.



Capgemini

CONSULTING. TECHNOLOGY. OUTSOURCING

JACOBS

Johnson Controls



Internships in



Directorate General of Training

JE JACOBS

Gowardhan

RELIANCE

Energy



PNEUCON

R.K. CONTROL INSTRUMENTS PVT. LTD.
THE CONTROL VALVE SPECIALISTS

"The Best preparation for Tomorrow is Doing your best Today."

Research Forum

Event on “Tracking problem in Non-minimum phase system” taken by Dr. M. D. Patil on 3rd October 2017.

Minor Research Grants (Applied)

1. *Electronic talking gloves for speech disabled people*

Mrs. Amudha Senthilkumar

2. *Using Artificial Intelligence to reduce water loss by identifying water leaks in public utilities*

Mr. Kader Shaikh

Research Paper Published

Mrs. Sangeetha Prasanna Ram has published a research paper on “A stochastic convergence analysis of random number generators as applied to error propagation using Monte Carlo method and Unscented transformation technique”, in International Conference – “IEEE SPICES 2017” on 8th – 10th August 2017.

Staff and Student Activities

Our teachers and students always have a constant thrive to upgrade their knowledge in their chosen field of interest by attending workshops and courses on new upcoming areas, software's & its applications. Some of the courses attended and conducted by our faculty members are:

Courses Attended:

1. Six Days STTP on “Role of mathematics in engineering” at VESIT, Chembur from July 3, 2017 to July 8, 2017 – Dr. M. D. Patil , Mrs. Sangeetha Prasanna Ram, Mrs. Deepti Khimani, Mrs. Amudha Senthilkumar and Mr. Prasad Godse.
2. Six Days STTP on “Wavelets and machine learning” at VESIT, Chembur from July 3, 2017 to July 8, 2017 – Mrs. Jayashree Ramkrishnan and Mrs. Madhumati Khuspe.
3. Quality Improvement Program (QIP) at IIT Bombay on “Biology for engineers” from June 5, 2017 to June 9, 2017 – Mrs. Jayashree Ramkrishnan and Mrs. Madhumati Khuspe.
4. ISTE approved course on “Practical approaches in wireless communication” at K. J. Somaiya, Vidyavihar from May 29, 2017 to June 2, 2017 – Mrs. Jayashree Ramkrishnan and Mrs. Madhumati Khuspe.
5. Five Days seminar on “Teaching tools and methodologies for engineers” at Vidyalankar Institute of technology, Wadala from June 19, 2017 to June 23, 2017 – Mrs. Amudha Senthilkumar.

“If opportunity doesn't knock, build a door.”

Training for L&T GET

Instrumentation faculty trains Graduate engineering trainees from L&T on the different equipment and set-up in Transducers Lab and Process Instrumentation Lab of Instrumentation department.



Summer Internship

As a part of Skill Development, a Summer Internship Program was organized for second year students (who will be going to third year) of VESIT, during the summer vacation from 15th June 2017 to 15th July 2017. Students were given project titles to work on and develop their skills in project management like Data Logger + Digital Thermometer, Data Logger + Speaking gloves for speechless person...

Courses Conducted by Faculty

- ❖ **Mrs. Kanchan Chavan**
 - Training for L&T GET (12 days)
 - LabVIEW training workshop (7 days)
 - AIA workshop (8 days)
- ❖ **Mr. Kader Shaikh**
 - LabVIEW training workshop (7 days)
 - AIA workshop (8 days)
- ❖ **Mrs. Kadambari Sharma**
 - Training for L&T GET (12 days)
 - AIA workshop (8 days)
- ❖ **Mrs. Sangeetha Prasanna Ram**
 - LabVIEW training workshop (7 days)
- ❖ **Mrs. Nilima Warke**
 - Training for L&T GET (12 days)
- ❖ **Mr. Prasad Godse**
 - Training for L&T GET (12 days)
- ❖ **Mrs. Amudha Senthilkumar**
 - Training for L&T GET (12 days)



“The undertaking of new action brings new strength.”

Skill Enhancement Lectures (SEL)

1. "Overview of VHDL" by Mr. Mrugendra M. V., V.E.S.I.T. on 13th September 2017.
2. "Functional safety in refinery industry" by Mr. Vikram Gupta, Assistant manager at BPCL, on 16th September 2017.
3. "Forces at microscopic scale in Biology" by Dr. Ambarish Kunwar, IIT-B on 25th September 2017.
4. "Functional safety" by Mr. Venkatasubramanian S, Lead IPF Reliability, Reliance Industries Ltd, Mumbai, on 11th October 2017.
5. "Antisurge control of compressor" by Mr. Rahul Bisht, Reliance Industries Ltd, Mumbai on 11th October 2017.



Workshops/Seminars attended by students

1. Workshop on "From Roaches to Robots" at ISME, Lower Parel, Mumbai.

Date: 12th August 2017

Speaker: Dr. Ravi Vaidynathan, The Imperial College of London

Venue: ISME, Lower Parel, Mumbai

Attendees: 11 B.E. and 13 T.E. students along with Mrs. Sangeetha Prasanna Ram, Mr. Gopalkrishnan.



"A little Progress each Day, adds upto Big Results."

2. Process Lab orientation workshop

Date: June 8th to 16th 2017

Speaker: Mr. Prasad Godse

Venue: Process Automation Lab, VESIT

Attendees: SE Students.



3. LabVIEW training workshop

Date: 11th to 17th July 2017

Speaker: Mrs. Kanchan Chavan, Mr. Kader Shaikh, Mrs. Sangeetha Prasanna Ram

Venue: VESIT

Attendees: S.E., T.E., B.E Students.



Alumni Interaction

An alumni interaction for Instrumentation Department was organized where many alumni communicated with the present batch final year students and guided them for future.

The session was aimed at guiding the current students in terms of career post - engineering. The session had a lot of Q&A sessions. The feedback and life changing experiences shared by the alumni was really worth taking into consideration. The students had their queries resolved related to different fields that can be explored post - engineering.



Thank You!