



**National Workshop
on
“Recent Advances in Industrial Control”
January 03-05, 2020**

REGISTRATION FORM

Name: _____

Designation: _____

Qualification: _____

Organization: _____

E-mail: _____

Phone: _____

Transaction ID.: _____

Date: _____ Amount Rs: _____

Signature of Participant

Registration fee to be paid via NEFT/RTGS in the following account (HDFC Bank)

Account Name: SVKM's NMIMS

Account No.: 13871450000032

IFSC Code: HDFC0001387, Shirpur Branch

Chief Patron

Shri Amrishbhai R. Patel

Chancellor, SVKM's NMIMS and President, SVKM

Shri Bhupeshbhai R. Patel

Joint President, SVKM

Patron

Dr. Jayant Gandhi
Mentor – MPSTME Mumbai

Shri Rajgopal Bhandari
Mentor- MPTP, Shirpur

Dr. Rajan Saxena
Vice Chancellor
SVKM's NMIMS

Dr. Sharad Mhaikar
Pro- Vice Chancellor
SVKM's NMIMS

Dr. R. S. Gaud
Director, SVKM's NMIMS
MPTP Shirpur Campus

Dr. N. T. Rao
Dean, SVKM's NMIMS
MPSTME Mumbai

Dr. Nikhlesh K. Sharma
Director (Engg. Programs)
SVKM's NMIMS, Shirpur

Mr. Rahul Dande
Chief Accountant & Administrator
SVKM's NMIMS, Shirpur

Workshop Chair

Dr. B. K. Mohanty

Professor & Head, Dept. of EXTC/ MXTC,
Associate Dean (R), MPSTME Shirpur

Coordinators

Suresh Kurumbanshi, Pravin Wararkar
Assistant Professor, EXTC

Contact: +91 9823944177 / 8668789936

Email: suresh.kurumbanshi@nmims.edu
pravin.wararkar@nmims.edu



**National Workshop
on
“Recent Advances in Industrial Control”
January 03-05, 2020**



Organized by

**Department of
Electronics & Telecommunication Engineering
BOSCH Centre for Excellence in Automation
Mukesh Patel School of Technology Management &
Engineering, Shirpur Campus**
Babulde, Bank of Tapi River, Mumbai Agra Highway
Dist. Dhule, PIN-425405, Phone: 02563- 286545-54
Fax: 02563-286552, Website: www.nmims.edu

Registration

Limited registrations are available on first come first basis.

Registration Fee (Rs.):

Industry Delegates	Faculty & Research Scholars	Students (UG & PG)
1,500/-	1,000/-	500/-

Accommodation: On campus accommodation is available for outstation participants on payment basis @ 500/ per day (includes lodging and boarding). Scanned copy of filled registration form along with the transaction receipt should reach the Workshop Coordinator by **December 24, 2019**.

About SVKM's NMIMS

The institution, established in the year 1981 now stands as a large, imposing institution (Deemed to be University) with 16 specialized schools and offer campus centers, with an intake of 15000+ students and 700+ full time faculty members. The Shirpur Campus of NMIMS has wholly eluted through the university vision to be vibrant and innovative Centre of education. It is equipped with world class infrastructure with an access to repositories of knowledge across the world.

About the Department

The EXTC Department currently offering B. Tech Program and MBA Tech integrated programs. The department is equipped with state-of-the-art laboratories and infrastructure to impart engineering teaching on electronics system design, embedded systems, digital communication, wireless communication, microwave and satellite communication. It also possesses advanced Bosch Rexroth Centre for Excellence in Automation and it is equipped with PLC, sensorics, mechatronics system design to study robotics and control. Department faculty are involved in imparting quality teaching, student mentoring and undertake research on emerging areas.

About Workshop

Automation Technology plays an important role in various application areas such as robotics, smart irrigation, product manufacturing processes, cyber physical systems, Internet-of-Things, health care, autonomous vehicles and many more. Automation requires flexible design which is efficient and support frequent code deployment, rapid machine set up and provides precision control. The objective of this workshop is to provide theoretical background, hands on training to enhance skill on various automation techniques and current challenges in Industrial Control. Subject experts are invited in this workshop to deliver lectures and conduct hands-on practice sessions.

Topics to be covered in lecture session

- Pneumatics, Hydraulics in Industrial Control and Challenges.
- Design of industrial applications using PLC
- Industry 4.0

Hands-on practice session on:

- Pneumatics and Electropneumatics
- Hydraulics & Electrohydraulic
- Ladder programming on PLC for industrial applications.



Resource Persons:

Mr. Chetan Rajdev (Hydac, Bengaluru, India)

Presently Head of Industrial Sales, Hydac India, Bengaluru. He was associated with Bosch Rexroth, India as Deputy General Manager. He has 18 years of experience in Industrial Automation. He held responsibilities of various sections such as Sales and Business Development for Southern India in sectors like Steel, Cement, Power, Bulk Material Handling, Machine Tool and Plastics & Presses. **(Topics to be covered:** Industry 4.0, Hydraulic Consultancy from Institute to Industry, Case Study, Open Discussion)

Mr. Raman Mane (MBR Automation Ltd., Nashik)

Presently Director of MBR Automation Ltd, Nashik. He was associated with Robotics & Machine Vision Nashik as a Head. He was holding responsibility of Robotic Engineer in AA Robotics, Buckinghamshire, UK. He did his M.Sc. in Advanced Manufacturing Technology from University of Manchester. **(Topics to be covered:** Sequence design in Industrial Applications, Pneumatic Control and Sensory Control of Pneumatics)

Mr. Santosh Surkule (Expert Automation Ltd., Pune)

Presently Director of Expert Automation, Pune. He has expertise in repair and maintenance of PLC, Industrial Encoders, Servo AC & DC Drives. **(Topics to be covered:** Profibus Encoder, Human Machine Interface & PLC)



How to reach (Location):

<https://goo.gl/maps/wqbQiZw7wBREAgN67>

Tentative Schedule

Day 1 : 3 rd January, 2020	
Time	Event
9.00 am -9.30 am	Registration & Tea
10.00 am -10.30 am	Inaugural Address by Chief Guest from Industry.
10.30 am - 12.30 pm	Talk 1: Role of Hydraulics in Industrial Control & challenges for the industry. (Chetan Rajdev)
12.30 pm - 1.30 pm	Lunch Break
1.30 pm - 2.30 pm	Talk 2: Basics of Hydraulics (Shashikant Patil)
2:30 pm - 2.45 pm	Tea Break
2.45 pm - 5.45 pm	Lab session 1: Testing of Hydraulic valves, Electro-hydraulic valves, Relays, Hydraulic set up (Chetan Rajdev / Parag Thote / Sunil Patil)
Day 2 : 4 th January, 2020	
Time	Event
9.30 am - 11.30 am	Talk 3 : Role of Pneumatics in Industrial Control & challenges for the industry (Raman Mane)
11.30 am - 1.00 pm	Talk 4 : Basic Pneumatics & Electro-pneumatics (Suresh Kurumbanshi)
1.00 pm - 2.00 pm	Lunch Break
2.00 pm - 6.00 pm	Lab session 2 : Testing of Pneumatic valves, Electro-pneumatic valves, Relays, Basic Pneumatic set up & Designing of Sequence. (Raman Mane / Suresh Kurumbanshi/ Parag Thote / Sunil Patil)
Day 3 : 5 th January, 2020	
9.30 am - 11.30 am	Talk 5 : Role PLC in Industrial Control & Challenges for the Industry. (Santosh Surkule)
11.30 am - 1.00 pm	Talk 6 : PLC, Ladder Programming, Designing Sequences in Industrial Control. (Suresh Kurumbanshi)
01.00 pm - 2.00 pm	Lunch Break
02.00 pm - 5.00 pm	Lab session 3: Ladder Programming, Hands on PLC, Interfacing of PLC. (Santosh Surkule / Sunil Chaudhari / Sunil Patil)
5.00 pm - 5.30 pm	Valedictory Session