



**International Society of Automation**  
*Setting the Standard for Automation™*



International Society of Automation (ISA) – Students Section of DDU is a group of Instrumentation and Control engineers that enable learning and knowledge sharing via a community of automation professionals across the world. Every year, DDU ISA students section organizes various events which involve a multitude of learning opportunities. The events include industrial visits, webinars, expert lectures, workshops, technical competitions, knowledge sharing sessions etc. These events include participation from various universities/colleges across India. The events offer an opportunity to students to be in touch with leading experts across the globe with special focus on cutting edge technologies in the domain of automation, instrumentation and control. In last several years, there are several events conducted which had a large number of foreign speakers delivering talks that enable the members of the section to learn and explore trending domains.



**13,000**  
MEMBERS

**115**  
SECTIONS

**102**  
COUNTRIES

**350,000**  
CUSTOMERS

STANDARDS

EDUCATION

CERTIFICATION

CONFERENCES

PUBLICATIONS

COMPLIANCE

STANDARDS

WEBINARS

TRAINING COURSES

VIRTUAL CONFERENCES

CERTIFICATION PROGRAMS

IN-PERSON CONFERENCES

VIDEOS

ISA CONNECT LIVE  
MEETUPS

MAGAZINES & E-BOOKS

BLOGS

E-NEWSLETTERS

SOCIAL MEDIA CONTENT

## Topics and Markets Covered by ISA's Content

### Smart Manufacturing/ Industry 4.0

IIOT  
IT/OT Convergence  
Manufacturing Digitalization  
Edge, Cloud Computing  
Digital Twin  
Design & Simulation

Additive Manufacturing  
Data Analytics  
Virtual Reality  
Machine Learning  
Autonomous Vehicles  
Supply Chain Optimization

### Cybersecurity & Connectivity

Network Management  
Protection  
Network Protocols  
Hardware & Devices  
Software Tools  
Wireless Networks

OPC & OPC UA  
EtherCAT, EtherNet/IP  
PROFINET  
Sercos Interface  
FDT, EDDL Technology

### Continuous & Batch Processing

Process Automation & Control  
Process Safety  
Functional Safety  
Distributed Control System  
Operator Interface  
SCADA & RTU  
Instruments & Sensors  
Final Control Elements  
Electrical Systems  
PID & Loop Control  
Batch Control  
Burner Management Systems

Fire & Gas Systems  
HMI  
Mobile Devices  
Process Composition  
Analyzers & Techniques  
Valves  
Pumps  
Control Panels  
Marshaling Cabinets  
Industrial Computers  
Power Supplies

### Discrete Manufacturing & Machine Control

Machine Automation &  
Control  
PLCs/PACs  
Computer-Based Control  
Motor & Drives  
Machine Safety  
Human Machine Interface  
Motion Control  
Robotics  
Automatic Identification

Vision Systems  
Sensors & Industrial I/O  
Electrical Systems &  
Power Supplies  
Embedded Control  
Machine Tools, CNC &  
DNC  
HMI/OIT  
Mobile Devices

### Operations & Management

Asset Management  
Project Management  
Change Over & Migrations  
Environmental Mgmt  
Corporate/ERP  
MES & Operations  
Management  
Compliance & Regulations  
Standards  
Energy Management  
Alarm Management  
Human Factors &  
Ergonomics

Plant and Facility Safety &  
Security  
Workforce Management  
Overall Equipment  
Effectiveness  
Leak Detection & Repair  
Maintenance & Repair  
MRO  
Situational Awareness  
Personnel Safety  
Electrical Safety

### End User Industries & Utilities

Aerospace  
Automotive  
Building Automation  
Chemical  
CPG  
Food & Beverage  
Mining & Metals  
Oil & Gas  
Petrochemical  
Packaging  
Pharmaceutical  
Power & Energy  
Fossil Fuels & Renewables  
Pulp & Paper  
Textiles

Warehouse & Logistics  
Water & Wastewater  
Industrial & Municipal Water  
**Automation Ecosystem  
Providers**

Original Equipment Manufacturers  
Systems Integrators  
Engineering & Procurement Firms  
Value Added Resellers  
Construction & Design Firms

ISA also offers generous scholarships to deserving students. The prestigious ISA PMCD Scholarship Award 2021-22 was awarded to *Jaykumar Mistry, FoT, IC department, DDU* of 1400 USD.

## List of Events organized by DDU ISA Students Section

(2020 onwards till 24 May 22)

No .	Year	Date	Type of event	Venue	Invited Expert/ Speaker	Designation, Firm	Topic
1	2020	03-01-2020	Industrial Visit KHS	Near Hirapur Chowkadi, Ahmedabad - Rajkot Highway, Vatva, Ahmedabad, Gujarat 382435	NA	NA	NA
2	2020	04-01-2020	Technical Presentation	Classroom no. 37 (FOT, DDU, Nadiad)	Atmik Singhal	Verification at Xilinx	Seminar on VLSI
3	2020	24-01-2020	Industrial Visit	Hindustan Coca Cola Beverages	NA	Hindustan Coca Cola Beverages	NA
4	2020	13-03-2020	Competition	IC Dept., DDU	NA	NA	Tarkashastram-2020
5	2020	27-06-2020	Online Webinar	Google Meet	Manoj Kumar	Design Tech Systems Pvt. Ltd	Webinar on Machine learning and Deep learning
6	2021	28-03-2021	Online Webinar	Microsoft Teams	Harsh Munshi	Oxolo, GmbH as Research Engineer (Computer Vision)	Webinar on Automating Tasks with Machine Learning
					Martin Schmitz	Research Assistant at Fraunhofer IAIS focussing on natural language processing	
7	2021	18-05-2021	Online Webinar	Google Meet	ISA DDU Student Section Committee	ISA DDU Committee 2021-22	Introduction to MATLAB

8	2021	20-05-2021	Online Competition	Google Meet	NA	NA	Quiz on Control Theory and MATLAB
9	2021	28/05/2021 to 29/05/2021	Online Workshop	Google Meet	ISA DDU Student Section Committee	ISA DDU Committee 2021-22	2 days Workshop on RSLogix
10	2021	07/06/2021 to 10/06/2021	Online Workshop in Collab with MBIT Anand	Microsoft Teams	Dhiraj Jagtap	DesignTech	3 days Workshop on AI with MATLAB
11	2021	15-07-2021	Online Awareness Session	Google Meet	ISA DDU Student Section Committee	ISA DDU Committee 2021-22	ISA Awareness Session - July
12	2021	25-07-2021	Online Webinar in Collab with ISA MPSTME	Microsoft Teams	Kamlesh Umale & Nishant Prasad	Kamlesh Umale, Founder, Lynergy Mobility Nishant Prasad, Ather Energy from Pravaig	EVolution - Expert Talk on EV Technology
13	2021	13-08-2021	Online Expert Talk	Zoom Meeting	Brian Mast	Copper Bell Consulting LLC, Seattle	ISA DDU Automation Talks - E1 on Control Systems
14	2021	04-09-2021	Online Expert Talk	Microsoft Teams	Debabrata Das	Chief Manger (Operations), IOCL	ISA DDU Automation Talks - E2 on DCS
15	2021	25-09-2021	Online Expert Talk	Microsoft Teams	Lalit Bangera	Process Design Specialist Siemens Pte Ltd, Singapore	ISA DDU Automation Talks - E3 on SMIIoT
16	2021	29-09-2021	Online Awareness Session	Microsoft Teams	ISA DDU Student Section Member	Non-Committee Members	What is ISA? ISA Awareness Session - September

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17	2021	02-10-2021	Online Webinar	Microsoft Teams	Thilak Ramanjana	Employee Relations and Policies Associate Manager at Accenture	Student Development Program for Placement
18	2021	26-10-2021	Online Webinar	Microsoft Teams	Marybeth Ramey	Control Systems Engineer, DuPonts' Derlin Business	ISA DDU Automation Talks - E4 on Recent Trends and Development in Process Control Industry
19	2022	17-04-2022	Online Webinar	Zoom Meetings	Robertson George	Professional Control Systems Engineer, USA	ISA DDU Automation Talks - E5 on Cybersecurity in Process Control