ABOUT US

Vivekanand Education Society's Institute of Technology (VESIT), established in 1984, is one of the premier autonomous institute for engineering affiliated to the University of Mumbai. VESIT has been practicing innovative teaching practices to attain its mission of being committed to excellence in technological education, research and training, use of contemporary participant-centric pedagogies and teaching methods and establishing a presence in emerging segments of technological education.

The Department of Automation & Robotics (AuRo) formerly known as Instrumentation Engineering (established in 1984), has been a pioneer in technical education. Renamed in 2022 to reflect evolving industry demands, our curriculum emphasizes experiential learning, supported by state-of-the-art laboratories in Process Instrumentation, Transducers, and Robotics, providing students with essential hands-on experience and practical skills.

VIVEKANAND EDUCATION SOCIETY'S
INSTITUTE OF TECHNOLOGY
(AUTONOMOUS INSTITUTE AFFILIATED TO UNIVERSITY OF MUMBAI, APPROVED BY AICTE & RECOGNIZED BY GOVT. OF MAHARASHTRA)

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- Dr. Sangeetha Prasannaram, HoD, Dept of AuRo
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EMERGING TRENDS IN AUTOMATION AND ROBOTICS

ISTE APPROVED

FACULTY DEVELOPMENT PROGRAM
AND
INDUSTRIAL TRAINING

ORGANISED BY

DEPARTMENT OF AUTOMATION & ROBOTICS

24th June to 28th June 2025

COORDINATORS

Dr. Nilima Warke, Associate Prof., Dept of AuRo
9967585793

Mr.Gopalakrishnan N, Assistant Prof., Dept of AuRo
9967531081

VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY
HASHU ADVANI MEMORIAL COMPLEX,
COLLECTOR COLONY, CHEMBUR, MUMBAI,
MAHARASHTRA 400074

https://vesit.ves.ac.in

VISION

To contribute towards creating interdisciplinary engineers in the field of Automation and Robotics who strive towards applying their knowledge for the progress of the society.

ABOUT PROGRAM

This Faculty Development Program and Industrial training on "Emerging Trends in Automation and Robotics" is designed to equip faculty members with practical knowledge and insights into cutting-edge industrial technologies. The program brings together domain experts from leading automation sectors to deliver sessions on key topics such as Machine Condition Monitoring, Emission Monitoring Systems, Fire & Gas Detection, Custody Transfer Metering, Machine Vision, and Robotics using MATLAB. Each session is complemented with live demonstrations to bridge theoretical understanding with real-world applications. The program also includes an industrial visit to provide on-ground exposure to advanced automation systems, enabling participants to align academic instruction with current industry practices.

PROGRAM OUTCOMES

- Discuss the principles and industrial significance of Machine Condition Monitoring Systems, and apply them for predictive maintenance and operational efficiency.
- Explain and demonstrate the functioning of Continuous Emission Monitoring Systems for regulatory compliance and environmental monitoring.
- Identify key components and operational procedures within an Analyzer Shelter, and interpret data from real-time demo systems.
- Describe the architecture and working of Fire & Gas Integration Systems, with live demo setups for safety and hazard detection.
- Comprehend and apply the concepts of Custody Transfer Metering Solutions, including their role in accurate fiscal measurement and industrial transactions, with practical demonstrations.
- Analyze and implement Machine Vision techniques for automated inspection and quality control, supported by live industrial demos.
- Explore advanced packaging machinery automation using PLC
- Gain hands-on experience with MATLAB Robotics Toolbox, including modeling, simulation, and control of robotic systems, for automation and research applications.

RESOURCE PERSON

Eminent speakers from:

- Reliance Industries
- Adage Automation
- Honeywell
- Emerson
- Sierra Instruments
- Forbes Marshall
- Hikrobot
- IMA-PG
- MathWorks

REGISTRATION FEES

Academia : ₹1000/-
Industry Professionals : ₹2000/-

REGISTRATION LINK

https://forms.gle/drMzQyez3TDgkzpX9

ORGANISING TEAM

Dr.Kadambari Sharma, Assistant Prof., Dept of AuRo

Mrs.Jayassre Ramakrishnan, Assistant Prof., Dept of AuRo

Mrs.Ramya T, Assistant Prof., Dept of AuRo

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