



## ELECTRONICS AND INSTRUMENTATION ENGINEERING

### AY 2025 -26 Events Organized

S.No.	Name of the Event	Dates (DD/MM/YYYY)	Resource Person	Supported by	Participants
1.	Guest lecture titled “Instrumentation, Automation & Compliance: A Cross-Industry Perspective from Chemical, Power and Life Sciences”	18/04/2026	Mr. Suresh Pamarthi Senior Manager – Engineering & Maintenance Biological E. Ltd. Hyderabad, Telangana Alumnus (2006–2010 Batch)	SAHE	100 students
2.	Value Added Course on “Cyber Security in Industrial Automation”	14/03/2026 to 19/04/2026	Technospark IT Solutions, Vijayawada	SAHE	30 Students
3.	Value Added Course on “Industrial Instrumentation Reality”	07/03/2026 to 26/03/2026	Mr. N. Surya Seshu Kumar, Instrumentation & Control Engineer, Instrux.	SAHE	50 students
4.	Guest lecture titled “From Classroom to Cleanroom: My Journey in Pharmaceutical Equipment”	14/03/2026	Mr. B. Durga Venkata Prasad Technical Support Manager Tofflon India Pvt. Ltd. Pashamylaram, Telangana. Alumnus (2014–2017 Batch)	SAHE	100 students
5.	Guest lecture titled “The Synergy of Automation and AI in Industry”	14/03/2026	Mr. G. Pavankumar, Senior Automation Engineer, Siemens	SAHE	120 students

			Technology and Services Pvt. Ltd., Bengaluru		
6.	Guest lecture titled “Latest Trends and Technologies in VLSI”	11/03/2026	Dr. Sk. Ashraf Ali, VLSI Expert, Siliquan Technologies, Vijayawada	SAHE	53 Students, 2 Faculty
7.	Value Added Course on “Python Django Full Stack in Microservices”	15/12/2025 to 31/01/2026	Standard Solutions, Vijayawada	SAHE	62 Students
8.	Value added Course on “Python Flask Full Stack in Microservices”	15/12/2025 to 31/01/2026	Society for Larning Technologies, Vijayawada	SAHE	62 Students
9.	Technical Expo cum Workshop on “Autonomous Systems for Industrial, Medical & Agricultural Applications”	22/12/2025 & 23/12/2025	1. C Sudhakar, SRC e-solutions, Vijayawada, 2. G Pavan Kumar, Senior Automation Engineer, Siemens Technology and Services Pvt. Ltd., Bengaluru and experts from Fourth Apple Research Labs Pvt. Ltd., Vijayawada.	SAHE	105 students and 12 faculty
10.	Guest lecture on “Runway for Billion Opportunities”	13/12/2025	Mr. Gumma Omkar Embedded Software Engineer Honeywell Aerospace, Bangalore	SAHE	130 students
11.	Guest lecture on “Distributed Control & Networking Architectures in Modern Power Plants”	22/11/2025	Mr. T. Kamal Kumar, De puty General Manager, BHEL Hyderabad	SAHE	130 students
12.	Value Added Course “Industry 5.0”	11/10/2025 to 25/10/2025	Mr. Manikandan P, Solution Architect, CodenPlay Robotics, Bengaluru	SAHE	39 students, 1 Technical Staff
13.	Guest lecture on “Industry 4.0: The Future of Engineering”	10/10/2025	Mr. Batchu Dharmaraju, Assistant Manager, Steel Authority of India Limited (SAIL) – Bhilai Steel Plant	SAHE	120 students
14.	Guest Lecture on “Overview of Functional Safety in Automotive Systems”	30/08/2025	Mr. N. V. K. Vamsi Magapu, Functional Safety Expert, Bosch Global Software Technologies Pvt. Ltd., Hyderabad	SAHE	120 students

15.	Guest lecture on “Startup Support Mechanisms and Opportunities”	29/08/2025	Mr. G. Bhanu Kiran, Director and Technical Head, Konstelec Sastra Automation, Mumbai	IIC, SAHE	80 students
16.	Training Program on “Industrial Automation Essentials: PLC Programming for Support Staff”	29/07/2025	Mr. J. Raja Ram, M/s Hitech Automation, Vijayawada	SAHE	15 Non-Teaching Technical Staff
17.	Guest lecture on “Angel Investment and Venture Capital Funding Opportunities for Early Stage Entrepreneurs”	28/07/2025	Mr. P. Mani Kumar, Founder and CEO, SEPNOTY Technologies Pvt. Ltd., Bengaluru	IIC, SAHE	53 students

## **Guest lecture on “Instrumentation, Automation & Compliance: A Cross-Industry Perspective from Chemical, Power and Life Sciences”**

The Department of Electronics and Instrumentation Engineering, Siddhartha Academy of Higher Education Deemed to be University, organized a guest lecture titled “Instrumentation, Automation & Compliance: A Cross-Industry Perspective from Chemical, Power and Life Sciences” on 18<sup>th</sup> April 2026 as part of the Lecture Series – Alumni Connect for Emerging Engineers.

The session was delivered by Mr. Suresh Pamarthi, Senior Manager – Engineering & Maintenance, Biological E. Ltd., Hyderabad, and alumnus of the 2006–2010 batch. The lecture provided valuable insights into instrumentation and automation practices across industries such as chemical, power, and life sciences. The speaker discussed real-time applications of PLC, DCS, SCADA, and MES systems, engineering maintenance strategies, plant reliability, and regulatory compliance in pharmaceutical and process industries. He also highlighted utility management, safety systems, sustainability initiatives, and challenges involved in brownfield and greenfield projects. The lecture was attended by about 100 undergraduate students of the department.

The event was coordinated by Dr. P. Srinivas, Associate Professor and Mrs. K. Vijaya Lakshmi, Assistant Professor, EIE.



## **Value Added Course on “Cyber Security in Industrial Automation”**

The Department of Electronics and Instrumentation Engineering, Velagapudi Ramakrishna Siddhartha School of Engineering, Siddhartha Academy of Higher Education Deemed to be University, organized a 40-hour Value Added Course titled “Cyber Security in Industrial Automation” from 14<sup>th</sup> March to 19<sup>th</sup> April 2025 in hybrid mode in association with Technospark IT Solutions, Vijayawada.

The sessions were handled by resource persons from Technospark IT Solutions, Vijayawada, focusing on cybersecurity concepts in industrial automation, industrial control system security, network security, threat detection, vulnerability assessment, secure communication protocols, and best practices for protecting critical industrial infrastructure. A total of 30 III B.Tech. EIE students participated in the course, gaining practical knowledge and hands-on exposure to cybersecurity challenges and solutions in modern industrial automation systems.

The program was coordinated by Dr. C. S. S. Anupama, Associate Professor, EIE.



## **Value Added Course on “Industrial Instrumentation Reality: Case-Study-Based Learning for Engineering Thinking”**

The Department of Electronics and Instrumentation Engineering, Siddhartha Academy of Higher Education Deemed to be University, organized a 40-hour Value Added Course titled “Industrial Instrumentation Reality: Case-Study-Based Learning for Engineering Thinking” from 14<sup>th</sup> March to 11<sup>th</sup> April 2026 in association with instruX Technologies Private Limited, Kakinada.

The sessions were handled by Mr. Surya Seshu Kumar N, Instrumentation and Control Engineer, instruX Technologies Private Limited, focusing on real-world industrial instrumentation practices, measurement systems, temperature, pressure, flow and level measurement, signal transmission, grounding and shielding techniques, troubleshooting methodologies, and case-study-based analysis of industrial failures. A total of 50 II B.Tech. students participated in the course, gaining practical exposure to industrial instrumentation systems, engineering decision-making, and problem-solving approaches used in process industries.

The program was coordinated by Mr. G. Jalalu, Assistant Professor and Dr. S. Srinivasulu Raju, Assistant Professor (Selection Grade), EIE.



## **Guest lecture on “From Classroom to Cleanroom: My Journey in Pharmaceutical Equipment”**

The Department of Electronics and Instrumentation Engineering, Siddhartha Academy of Higher Education Deemed to be University, organized a guest lecture titled “From Classroom to Cleanroom: My Journey in Pharmaceutical Equipment” on 28<sup>th</sup> March 2026 as part of the Lecture Series – Alumni Connect for Emerging Engineers.

The session was delivered by Mr. B. Durga Venkata Prasad, Technical Support Manager, Tofflon India Pvt. Ltd., Telangana, and alumnus of the 2014–2017 batch. The lecture provided insights into the pharmaceutical equipment industry, focusing on the transition from academic learning to cleanroom environments. The speaker discussed industry expectations, importance of core EIE concepts, and real-time applications of PLC, DCS, and SCADA systems. He also explained commissioning and qualification of pharmaceutical machinery, aseptic processes, advanced injectable systems, and challenges in the pharmaceutical manufacturing sector. The lecture was attended by about 100 undergraduate students of the department.

The event was coordinated by Dr. P. Srinivas, Associate Professor, and Mrs. K. Vijaya Lakshmi, Assistant Professor, EIE.



## **Guest lecture on “The Synergy of Automation and AI in Industry”**

The Department of Electronics and Instrumentation Engineering, Siddhartha Academy of Higher Education Deemed to be University, organized a guest lecture titled “The Synergy of Automation and AI in Industry” on 14<sup>th</sup> March 2026 as part of the Lecture Series – Alumni Connect for Emerging Engineers.

The session was delivered by **Mr. G. Pavan Kumar, Senior Automation Engineer, Siemens Technology and Services Pvt. Ltd., Bengaluru**, and alumnus of the 2014–2017 batch. The lecture provided insights into industrial automation systems, the role of PLC, SCADA, and DCS, integration of Artificial Intelligence in smart manufacturing, and real-time industrial applications in sectors such as power plants, oil & gas, and manufacturing. The lecture was attended by around 120 students.

The event was coordinated by Dr. P. Srinivas, Associate Professor, and Mrs. K. Vijaya Lakshmi, Assistant Professor, EIE.



## Guest lecture on “Latest Trends and Technologies in VLSI”

The Department of Electronics and Instrumentation Engineering, Siddhartha Academy of Higher Education Deemed to be University, organized a guest lecture titled “Latest Trends and Technologies in VLSI” on 11<sup>th</sup> March 2026 in collaboration with Siliquan Technologies Pvt. Ltd., Vijayawada.

The session was delivered by **Dr. Sk. Ashraf Ali, VLSI Expert, Siliquan Technologies**, who discussed recent advancements in VLSI testing methodologies, the D-Algorithm for fault detection, high-quality test pattern generation, and best practices for chip layout design. A total of 53 second-year B.Tech EIE students and two faculty members participated in the lecture, gaining valuable exposure to emerging semiconductor technologies.

The programme was organized by Dr. P. Durga Prasada Rao, Senior Assistant Professor, EIE.



## **Technical Expo cum Workshop on “Autonomous Systems for Industrial, Medical & Agricultural Applications”**

The Department of Electronics and Instrumentation Engineering, Siddhartha Academy of Higher Education Deemed to be University, organized a Technical Expo on “Autonomous Systems for Industrial, Medical & Agricultural Applications” on 22<sup>nd</sup> & 23<sup>rd</sup> December 2025.

The expo provided a platform for students and institutions to showcase innovative models related to industrial automation, smart agriculture, medical assistive systems, robotics, and intelligent sensing technologies. A total of 25 models (shortlisted from 90) were exhibited, with 75 students actively participating in technical presentations and discussions. In addition, **four parallel hands-on workshop tracks** were conducted, benefiting 105 students and 12 faculty members by enhancing practical skills in autonomous system design and emerging technologies. The resource persons for these workshop tracks are **C. Sudhakar, SRC e-solutions, Vijayawada, G. Pavan Kumar, Senior Automation Engineer, Siemens Technology and Services Pvt. Ltd., Bengaluru** and experts from **Fourth Apple Research Labs Pvt. Ltd., Vijayawada**. The event was coordinated by Mr. V. N. Prudhvi Raj, Associate Professor, EIE.



## **Guest lecture on “Runway for Billion Opportunities”**

The Department of Electronics and Instrumentation Engineering, Siddhartha Academy of Higher Education Deemed to be University, organized a guest lecture titled “Runway for Billion Opportunities” on 13<sup>th</sup> December 2025 as part of the Lecture Series – Alumni Connect for Emerging Engineers.

**Mr. Gumma Omkar, Embedded Software Engineer, Honeywell Aerospace, Bengaluru**, and alumnus of the 2018–2022 batch, delivered an insightful session highlighting emerging career opportunities, industry expectations, and the importance of strong technical fundamentals and continuous learning. The lecture was attended by around 130 students.

The event was coordinated by Dr. P. Srinivas, Associate Professor, and Mrs. K. Vijaya Lakshmi, Assistant Professor, EIE.



## Guest lecture on “Distributed Control & Networking Architectures in Modern Power Plants”

The Department of Electronics and Instrumentation Engineering, Siddhartha Academy of Higher Education Deemed to be University, organized a guest lecture on “Distributed Control & Networking Architectures in Modern Power Plants” on 22<sup>nd</sup> November 2025 as part of the Lecture Series – Alumni Connect for Emerging Engineers.

The session was delivered by **Mr. T. Kamal Kumar, Deputy General Manager, BHEL Hyderabad**, and an alumnus of the EIE Department (1997–2001 Batch). The lecture provided students with an overview of automation and networking architectures in large-scale power plants, highlighting real-time monitoring, fault detection, and industry trends in modern power generation. The lecture was attended by around 130 students.

The event was coordinated by Dr. P. Srinivas, Associate Professor, and Mrs. K. Vijaya Lakshmi, Assistant Professor, EIE.



## Value Added Course on “Industry 5.0”

The Department of Electronics and Instrumentation Engineering, Siddhartha Academy of Higher Education Deemed to be University, organized a 40-hour Value Added Course titled “Industry 5.0” from 11<sup>th</sup> to 25<sup>th</sup> October 2025 in association with CodenPlay Robotics, Bengaluru.

The sessions were handled by **Mr. Manikandan P, Solution Architect, CodenPlay Robotics, Bengaluru**, focusing on PLC programming, Node-RED, industrial communication protocols, and digital twin simulations using Factory I/O and Simumatik. A total of 39 III and IV B.Tech. students and one technical staff participated in the course, gaining hands-on exposure to automation, IoT, and smart manufacturing technologies aligned with Industry 5.0 concepts.

The program was coordinated by Mrs. K. Vijaya Lakshmi, Assistant Professor and Mr. V. Naga Prudhvi Raj, Associate Professor, EIE.



## **Guest Lecture on “Industry 4.0: The Future of Engineering”**

The Department of Electronics and Instrumentation Engineering, Siddhartha Academy of Higher Education Deemed to be University, organized a guest lecture titled “Industry 4.0: The Future of Engineering” on 10<sup>th</sup> October 2025, as part of the Lecture Series – Alumni Connect for Emerging Engineers.

**Mr. Batchu Dharmaraju, Assistant Manager, Steel Authority of India Limited (SAIL) – Bhilai Steel Plant**, and alumnus of the 2011–2015 batch, delivered an insightful talk on Industry 4.0 technologies such as Artificial Intelligence (AI), Internet of Things (IoT), and Smart Automation. The session emphasized the importance of digital transformation and industrial automation, inspiring students to bridge the gap between academic learning and industry practices. The lecture was attended by around 120 students.

The event was coordinated by Dr. P. Srinivas, Associate Professor and Mrs. K. Vijaya Lakshmi, Assistant Professor, EIE.



## **Guest lecture on “Overview on Functional Safety in Automotive Systems”**

The Department of Electronics and Instrumentation Engineering, Siddhartha Academy of Higher Education Deemed to be University, organized a guest lecture on “Overview of Functional Safety in Automotive Systems” on 30<sup>th</sup> August 2025, as part of the Lecture Series – Alumni Connect for Emerging Engineers.

The session was delivered by **Mr. N. V. K. Vamsi Magapu, Functional Safety Expert, Bosch Global Software Technologies Pvt. Ltd., Hyderabad**, and an esteemed alumnus of the Department of EIE (Batch of 1998–2002). The lecture aimed to provide students with comprehensive insights into functional safety concepts in automotive systems, emphasizing their significance in modern vehicles and the industry practices adopted to ensure safety, reliability, and compliance with international standards. The lecture was attended by around 120 students.

The event was coordinated by Dr. P. Srinivas, Associate Professor and Mrs. K. Vijaya Lakshmi, Assistant Professor, EIE.



## Guest Lecture on “Startup Support Mechanisms and Opportunities”

The Department of Electronics and Instrumentation Engineering, Siddhartha Academy of Higher Education Deemed to be University, in collaboration with the Institution’s Innovation Council (IIC), organized a guest lecture titled “Startup Support Mechanisms and Opportunities” on 29<sup>th</sup> August 2025.

In this lecture, **Mr. G. Bhanu Kiran, Director and Technical Head, Konstelec Sastra Automation, Mumbai**, addressed 80 students, highlighting various institutional, regional, and national support systems available for nurturing startups. The session focused on incubation centers, funding agencies, mentorship programs, and government initiatives, guiding participants on accessing seed grants, venture capital, and industry partnerships to scale their ideas.

The event was coordinated by Dr. Prasanti Korapati, Assistant Professor, EIE.



## **Guest Lecture on “Angel Investment and Venture Capital Funding Opportunities for Early Stage Entrepreneurs”**

The Department of Electronics and Instrumentation Engineering, Siddhartha Academy of Higher Education Deemed to be University, in collaboration with the Institution’s Innovation Council (IIC), organized a guest lecture on “Angel Investment and Venture Capital Funding Opportunities for Early Stage Entrepreneurs” on 28<sup>th</sup> July 2025.

In this lecture, **Mr. P. Mani Kumar, Founder and CEO, SEPNOTY Technologies Pvt. Ltd., Bengaluru**, addressed 53 students, highlighting the role of angel investors and venture capitalists in supporting startups. The session covered pitch preparation, valuation, investor expectations, and funding strategies, enabling students to gain confidence in approaching potential investors.

The event was coordinated by Dr. Prasanti Korapati, Assistant Professor, Department of EIE.

