JAIN COLLEGE OF ENGINEERING, BELAGAVI.

Department of Electrical and Electronics Engineering

Report of a one day workshop on "Industrial Automation and Energy Management"

- **Date:** 30-10-2025
- **Mode of Conduction:** Offline

Resource Person: Miss Amrutha Bandiwadekar, Skill Center Manager and Trainer, VTU Belagavi
Miss Priyanka Kadannavar, Student Coordinator and Trainer, VTU Belagavi

- **Under the Banner of:** IE(I)&TESLA
- **Photograph:**



- **Objectives of the Event:**
  - To provide students with hands-on exposure to Industrial Automation and Energy Management systems.
  - To bridge the gap between academic knowledge and practical industrial applications.
  - To develop technical skills in automation, wiring, and logic development for process control.

- **Program Flow: (Agenda Attached)**
  - Registration of Participants
  - Welcome Address & Introduction of the Speaker
  - Workshop conducted by the Resource Person
  - Interactive Q&A Session
  - Vote of Thanks
- **Outcome of the Program:**
  - Enhanced understanding of automation components, wiring methods, and logic development.
  - Improved awareness of energy management techniques and optimization in industrial setups.
  - Strengthened connection between theoretical learning and real-world industrial practices.
  - Encouraged students to explore career opportunities in industrial automation and energy sectors.
- **List of all the Participants with their signature:**

  Offline mode and around 53 Students and 1 faculty were present (Attendance is attached).
- **Feedback from the Students:**
  - Students found the workshop highly informative and engaging.
  - They appreciated the trainers' practical demonstrations and hands-on approach.
  - The session motivated students to explore automation-based career opportunities and apply classroom knowledge to real-world engineering problems.

31/10/25 — Event Coordinator

31/10 — HOD

03-11-25 — Principal & Director

Sri Bhagawan Mahaveer Jain Educational & Cultural Trust's

JAIN COLLEGE OF ENGINEERING, BELAGAVI

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(Accredited by NBA: Department of Civil, CSE, ECE and EEE)

Estd. 2010

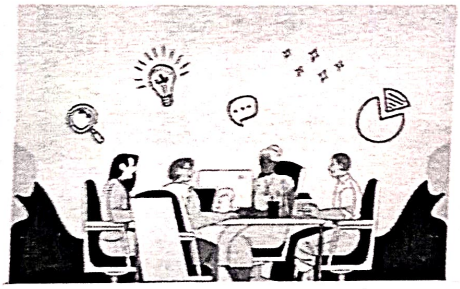
Department of Electrical & Electronics Engineering

ONE DAY WORKSHOP

on

"INDUSTRIAL AUTOMATION & ENERGY MANAGEMENT"

Resourse Persons:
Miss. Amrutha Bandiwadekar
Skill Center Manager & Trainer, VTU Belagavi
&
Miss. Priyanka Kadannavar
Student Coordinator & Trainer, VTU Belagavi



C-210, EEE DEPT.
JCE, Belagavi.

30th October 2025
Thursday
11:00am onwards

Coordinator
Mrs. Laxmi Brungi

HOD
Dr. Venkatratnam Chitturi

Principal & Director
Dr. J Shivakumar

Mahaveer Jain Educational & Cultural Trust's

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Estd. 2010

Department of Electrical & Electronics Engineering

Academic Year 2025-26

Sem: VII

One Day Workshop on Industrial Automation & Energy management

Date: 30-10-2025

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31	SHRADDHA VIJAYKUMAR BERAD [9731928843]	2JI22EE041		shraddhaberad347@gmail.com

em: VII

day
One Workshop

Date: 30-10-2025

R. No.	Name	USN	Signature	
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50	SAURABH B BHARBHARE (8546910775)	2JI23EE408		bharbhare3@gmail.com
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55	VINAYAK DONNENNAVAR 8660614458	2JI23EE413		vinayak2003don@gmail.com

30 Oct 25
Event Coordinator

HOD 31/10

Estd. 2010

Sri Bhagawan Mahaveer Jain Educational & Cultural Trust's

JAIN COLLEGE OF ENGINEERING, BELAGAVI

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Department of Electrical & Electronics Engineering

Report of " A 4-Days Hands-on Workshop on Automation with PLCs"

- Date:29-10-2025 **Offline Mode**
- Under the Banner of: **TESLA & IE(I)**
- Photograph:



- **Objective of the Event / Activity:**

  - To provide participants with practical exposure to Programmable Logic Controllers (PLCs) and industrial automation concepts.
  - To enable students to design and implement simple automation systems using PLC programming tools.
  - To bridge the gap between theoretical knowledge and industrial practices in automation.
  - To develop technical competencies and problem-solving skills relevant to automation and control engineering.

- **Program Flow: (Agenda/Schedule Plan as Attached)**

  - Welcome & Introduction.
  - Technical Session.
  - Feedback & Valedictory.

- **Outcome of the Program:**

  - Students gained hands-on experience in PLC programming and automation system design.
  - Enhanced technical and analytical skills applicable to real-world engineering problems.
  - Encouraged team collaboration and problem-solving mindset through project-based learning.
  - Strengthened industry readiness and employability in the field of automation and control.

- **Brief Summary:**

The Department of Electrical and Electronics Engineering, JCE Belagavi organized " A 4-Days Hands-on Workshop on Automation with PLCs" to provide students with industry-relevant skills in the field of automation and control systems. The workshop covered fundamentals of PLC architecture, ladder logic programming, and real-time system interfacing.

Participants engaged in simulation and practical sessions using PLC kits, learning to design, troubleshoot, and implement automation tasks such as motor control, conveyor operations, and process automation. The concluding session involved mini projects where teams demonstrated their automation concepts.

The workshop enhanced students' technical competence, teamwork, and readiness for careers in industrial automation, aligning with NBA Criterion 3 & 5 and contributing to SDG 4 (Quality Education) and SDG 9 (Industry, Innovation, and Infrastructure).

Event Coordinator HOD 31/10 Principal & Director 27.10

Sri Bhagawan Mahaveer Jain Educational & Cultural Trust's

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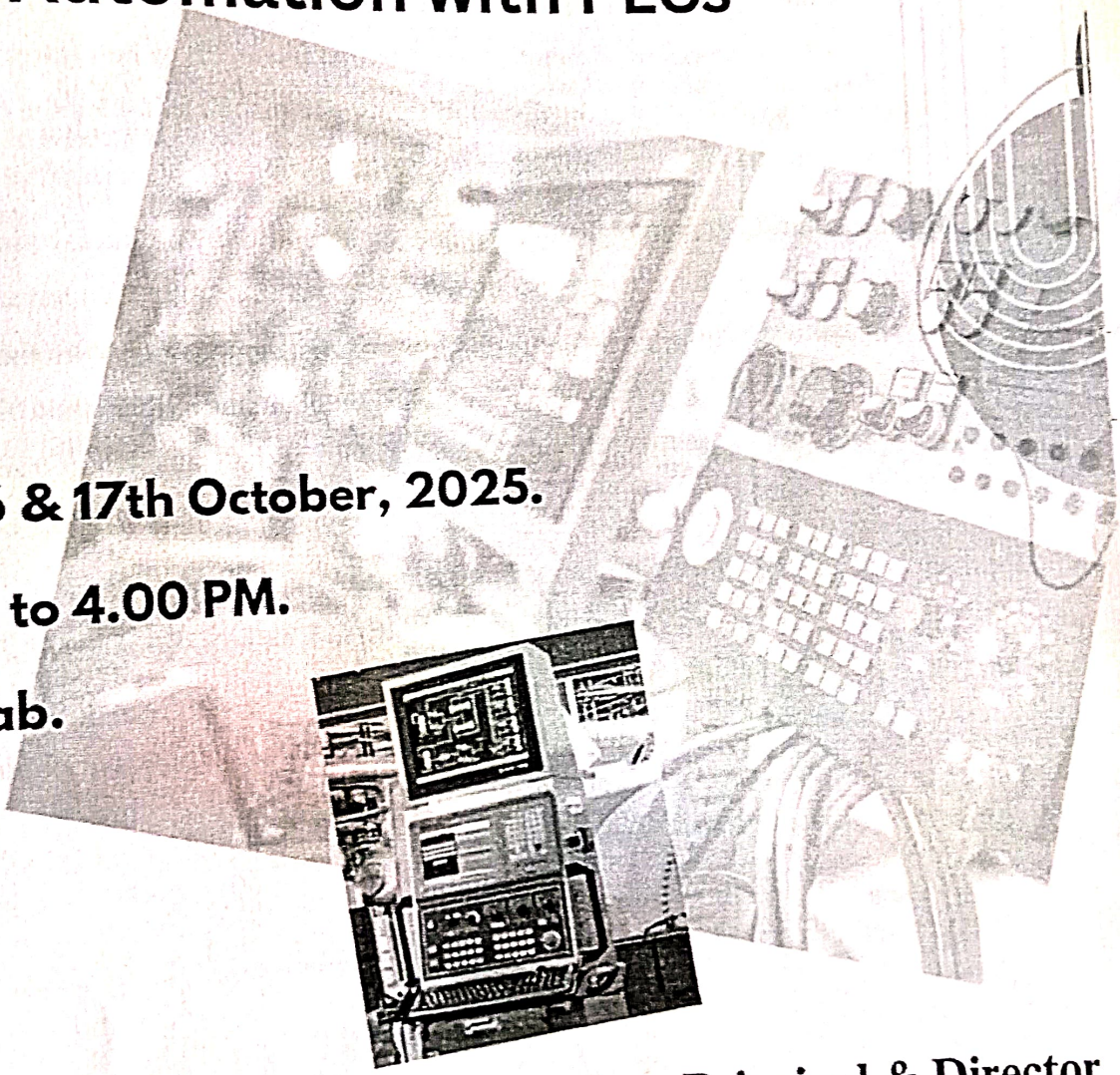
Department of Electrical & Electronics Engineering

Four Days Hands-on Workshop on "Automation with PLCs"



Date: 14, 15, 16 & 17th October, 2025.

Time: 1.00 PM to 4.00 PM.

Venue: PSS Lab.

Coordinators
Mr. Ashok B
Mrs. Mrugnayani G

HOD
Dr. Venkatratnam C

Principal & Director
Dr. J. Shivakumar

Sri Bhagawan Mahaveer Jain Educational & Cultural Trust's

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Department of Electrical & Electronics Engineering

organizes

4-Days Hands on Workshop on Automation with PLC's
(from 14th October to 17th October 2025)

SCHEDULE PLAN

Time & Date	Topic
01:00 PM to 04:00 PM **14/10/2025** **Day – 1**	Introduction to PLC • Basics of PLC's, Need of PLC's & Automation • PLC Addressing Modes • PLC Wiring Introduction & PLC Architecture
01:00 PM to 04:00 PM **15/10/2025** **Day – 2**	Understanding Digital Inputs/Outputs and Field Devices • Ladder Logic Basics – Symbols, Instructions, Syntax • PLC Programming Concepts – Bit Logic, Timers, and Counters • Introduction to WPL Soft tool & hands on session on tool usage
01:00 PM to 04:00 PM **16/10/2025** **Day – 3**	Developing Ladder Logic Programs using PLC Software • Testing and Debugging of Programs & Simulation • Analog I/O Handling • Handling & Interfacing Sensors & Actuators
01:00 PM to 04:00 PM **17/10/2025** **Day – 4**	Interfacing of Sensors, Motors, and Limit Switches • Simulation of Industrial Control Applications • Feedback Session **Resource Person** Mr. Mahesh Goral CEO, Nextgen Technologies. Belagavi, Karnataka

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Department of Electrical & Electronics Engineering

Four Days Hands-on Workshop on "Automation With PLCs" from 14th Oct. to 17th Oct

Sl No.	USN	Student Name	14/10/25	15/10/25	16/10/25	17/10/25
1	2JI22EE001	Abid Attar				
2	2JI22EE002	Aditya P Dhamanekar			AB	AB
3	2JI22EE003	Aditya Emmi	AB	AB	AB	AB
4	2JI22EE004	Aishwarya Sudarshan Toragalli				
5	2JI22EE005	Akash Kambar				
6	2JI22EE009	Dayanand Jayapal Kori	AB	AB	AB	AB
7	2JI22EE010	Druva Ilkal				
8	2JI22EE011	Guralingayya Kantimath				
9	2JI22EE012	Harish konakeri	AB	AB	AB	AB
10	2JI22EE014	Kavya Tirakannavar				
11	2JI22EE015	Keerti. Pujeri				
12	2JI22EE016	Madival Sappadli	AB	AB	AB	AB
13	2JI22EE017	Mallik Tahashildar			AB	AB
14	2JI22EE018	Megha Rajannavar				
15	2JI22EE019	Munjannavar Soundarya Sunil				
16	2JI22EE020	Naik Swapnil Sambhaji				
17	2JI22EE021	Navin Hubbali	AB	AB	AB	AB
18	2JI22EE024	Nirmala R Dalawai				
19	2JI22EE025	Pallavi Ramesh Yalage				
20	2JI22EE026	Patil Dhanashree Omprakash	AB			
21	2JI22EE027	Pavitra Nemagoudar				
22	2JI22EE028	Pooja I hiremath				
23	2JI22EE029	Praful Katariya				
24	2JI22EE031	Ravasab M Baloj		AB	AB	AB
25	2JI22EE032	Ritika Sulakhe		AB		
26	2JI22EE033	Sachin Nandaganvi				
27	2JI22EE037	Sandeep Pawar				
28	2JI22EE038	Santosh Desai	AB	AB	AB	AB
29	2JI22EE039	Satwik sambannavar				AB
30	2JI22EE040	Shivaprasad koti	AB	AB	AB	AB
31	2JI22EE041	Shraddha VijayKumar Berad				
32	2JI22EE042	Shweta ankalagi				
33	2JI22EE043	Sneha basavaraj dhannugol				

SL No.	USN	Student Name	14/10/25	15/10/25	16/10/25	17/10/25
34	2JI22EE044	Sneha Shrimant Gudlamani				
35	2JI22EE047	Umesh khadarwadkar			AB	AB
35	2JI22EE049	Varsha M				
36	2JI22EE050	Vijayalaxmi				
37	2JI22EE051	Vineet Mohite				AB
38	2JI22EE052	Vivek V katadal	AB	AB	AB	AB
39	2JI22EE053	Vrushabh Muttur				
40	2JI22EE054	Yash Tarale				
41	2JI23EE400	Aditya Togari	AB			
42	2JI23EE401	Lingaraj B Bassapuri	AB		AB	
43	2JI23EE402	Numan Murtuza	AB		AB	AB
44	2JI23EE403	Prajwal walishetti	AB	AB	AB	AB
45	2JI23EE404	Preeti	P.S.D	P.S.D	AB	P.S.D
46	2JI23EE405	Rohit Kamble				
47	2JI23EE406	Sachin Lamani				
48	2JI23EE407	Sakshi Sonaji				
49	2JI23EE408	Saurabh Bharbhare				
50	2JI23EE409	Varad Shete			AB	AB
51	2JI23EE410	Sohan Vijay Gurav				
52	2JI23EE411	vaishnavi savalagi				
53	2JI23EE412	Vinayak kammar		AB		
55	2JI23EE413	Vinayak Donnennavar	AB			AB
		Total No. of Students Present	41	43	38	37
		Total No. of Students Absent	14	12	17	18

17/10/25 17/10/25

Faculty Coordinator

Mr. Ashok B.

Mrs. Mrugnayani G.

31/10

HOD EEE

madival
Shivaprasad
Vivek
Santosh