

REPORT ON THE INDUSTRY-ORIENTED INTERNSHIP AWARENESS SESSION ON "INTERNSHIP OPPORTUNITIES & INDUSTRY EXPECTATIONS"

INTRODUCTION

In the present competitive engineering landscape, internships play a vital role in bridging the gap between academic learning and industry requirements. With the objective of creating awareness among students about industry-oriented internships and enhancing their employability skills, an **Industry-Oriented Internship Awareness Session** on the topic "**Internship Opportunities & Industry Expectations**" was organized for the students of **II B.Tech II Semester (EEE & ECE)** on **23 January 2026** at the **Placement Seminar Hall**.

The session was delivered by **Mr. MD. Akber Ansari**, Founder of **Electromation Technologies, Hyderabad**, and a **distinguished alumnus of JBIET**, who possesses more than two decades of experience in the field of industrial automation and engineering solutions. The program aimed to educate students on **internship opportunities, current industry expectations, emerging technologies, and career pathways** in core electrical and electronics sectors.

OBJECTIVES OF THE PROGRAM

The key objectives of the internship awareness session were:

- To emphasize the **importance of internships** in engineering education
- To create awareness about **industry expectations and employability skills**
- To expose students to **real-time industrial applications**
- To guide students in selecting **relevant internships aligned with their career goals**
- To motivate students towards **skill-based learning and continuous professional development**

HIGHLIGHTS OF THE SESSION

During the session, **Mr. MD. Akber Ansari** delivered an insightful and interactive talk focusing on the **practical relevance of internships** and their role in shaping a successful engineering career. He highlighted that internships are no longer optional but have become a **mandatory requirement for employability** in core industries.

The resource person elaborated on the **difference between academic knowledge and industrial expectations**, stressing that internships help students gain:

- Hands-on exposure to industrial equipment
- Understanding of real-time problem-solving
- Professional work ethics and communication skills
- Confidence to face interviews and workplace challenges

IMPORTANCE OF INTERNSHIPS

Mr. Ansari explained that internships enable students to:

- Apply theoretical concepts learned in classrooms to **real-world industrial problems**
- Understand **industrial workflow, safety standards, and quality practices**
- Build **professional networks** with industry experts
- Improve chances of **placements and higher education opportunities**

He emphasized that students who complete **relevant internships during their second and third years** gain a significant advantage during campus placements.

ROLE OF INTERNSHIPS IN BRIDGING ACADEMIA–INDUSTRY GAP

Mr. MD. Akber Ansari strongly emphasized that internships serve as a **crucial bridge between academic curriculum and industrial practice**. Through structured internships, students gain clarity on how engineering principles are applied in real-time industrial environments such as **automation plants, electrical control panels, process industries, manufacturing units, power distribution systems, substations, smart factories, renewable energy plants, and industrial utility services**. Exposure to these sectors enables students to understand **PLC-based control systems, SCADA monitoring, motor control centers (MCCs), variable frequency drives (VFDs), instrumentation systems, safety interlocks, quality standards, and industrial documentation practices**. Such practical experience enhances students' **technical competence, problem-solving skills, and industry readiness**, making them more employable.

TECHNICAL DOMAINS COVERED

The resource person elaborated on a broad range of **core and interdisciplinary technical domains** relevant to **Electrical and Electronics Engineering (EEE)** and **Electronics and Communication Engineering (ECE)** students. The session covered **Programmable Logic Controllers (PLC)** for industrial sequencing, machine automation, and process control; **Supervisory Control and Data Acquisition (SCADA)** systems for real-time monitoring, data logging, fault diagnosis, and remote operation of industrial processes; and **Industrial and Process Automation**, including sensors, actuators, control panels, and automation architecture. For **EEE students**, emphasis was laid on **power generation, transmission and distribution systems, substations, motor control centers (MCCs), electrical machines, protection systems, variable frequency drives (VFDs), renewable energy systems, energy management systems, and industrial power applications**. For **ECE students**, the session highlighted **industrial electronics, embedded systems, microcontrollers, signal conditioning, sensor interfacing, industrial communication networks, IoT-based monitoring systems, wireless communication for industrial applications, and Industry 4.0 technologies**. In

addition, applications such as **lift and building automation, milk and dairy automation, manufacturing industries, infrastructure projects, power plants, smart factories, water treatment plants, and industrial utility services** were discussed, providing students with a comprehensive understanding of **diverse internship and career opportunities aligned with EEE and ECE disciplines**.

INDUSTRY CYCLE AND CAREER PLANNING

An important segment of the session focused on the **industry cycle**, where Mr. Ansari explained:

- Evolution of technology in the electrical and automation sectors
- Current demand for **multi-skilled engineers**
- Importance of upgrading skills based on **industry trends**

Students were advised to plan their careers strategically by choosing internships that complement their **core engineering discipline** rather than unrelated short-term courses.

INTERACTION AND INSTITUTIONAL ENGAGEMENT

The session also witnessed an interaction between the resource person and the college management.

Dr. P. C. Krishnamachary, Principal, along with **Dr. I. Sudarsan Kumar, Dean – College Development**, **Dr. J. Kartigeyan, Dean – Student Affairs**, and **Dr. P. Duraipandy, Dean – IQAC & HoD – EEE**, felicitated the resource person by presenting a **plant sapling** as a token of appreciation.

Discussions were held on the **future growth of the EEE department**, industry collaboration, and the need for **industry-driven curriculum enrichment**.

STUDENT PARTICIPATION AND FEEDBACK

The session witnessed **active participation from students**, who interacted with the resource person and clarified their doubts related to internships, skill development, and job prospects. Students expressed that the session was **highly informative, motivating, and career-oriented**.

CONCLUSION

The Industry-Oriented Internship Awareness Session was highly successful in achieving its objectives. The program provided valuable insights into **industry expectations, internship opportunities, and career planning**, thereby motivating students to pursue **skill-based internships** alongside their academic curriculum.

Such sessions significantly contribute to **student employability, industry readiness, and institutional excellence**, and it is recommended that similar programs be organized regularly in collaboration with industry experts and alumni.



Fig.1. PPT banner highlighting the Industry-Oriented Internship Awareness Session on "Internship Opportunities & Industry Expectations".



Fig.2. Mr. MD. Akber Ansari, Founder of Electromation Technologies, Hyderabad, addressing students on the importance of internships.

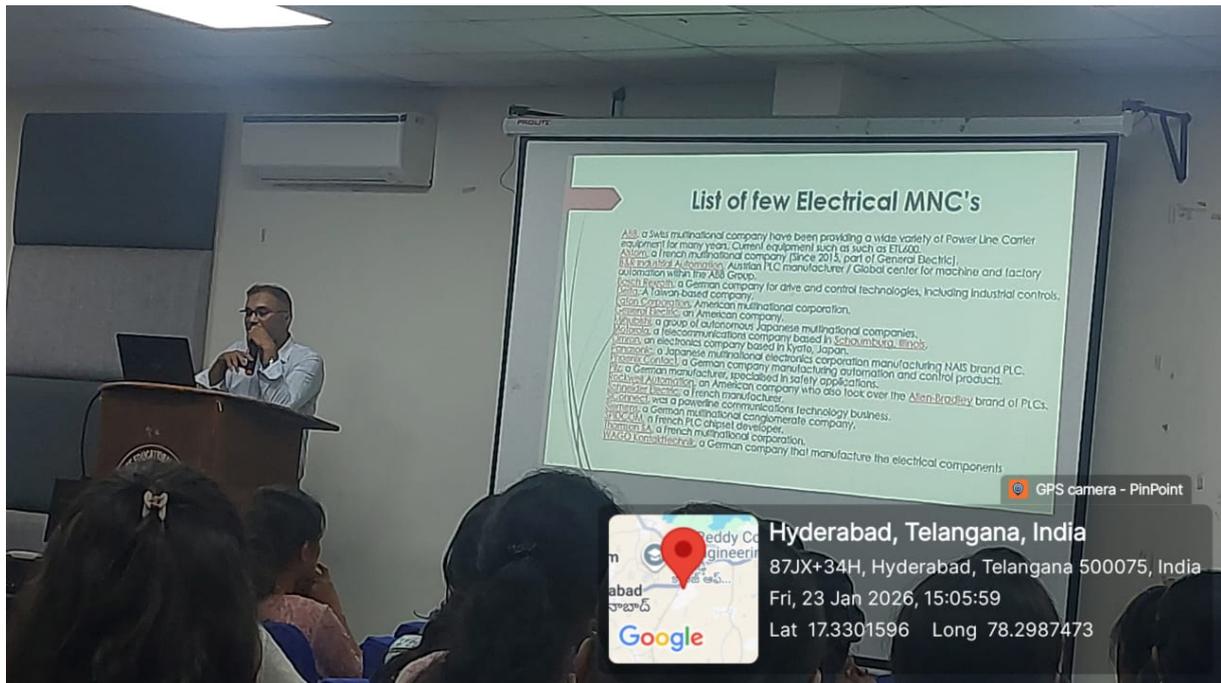


Fig.3. Mr. MD. Akber Ansari explaining the list of leading Electrical and Automation-based MNCs.

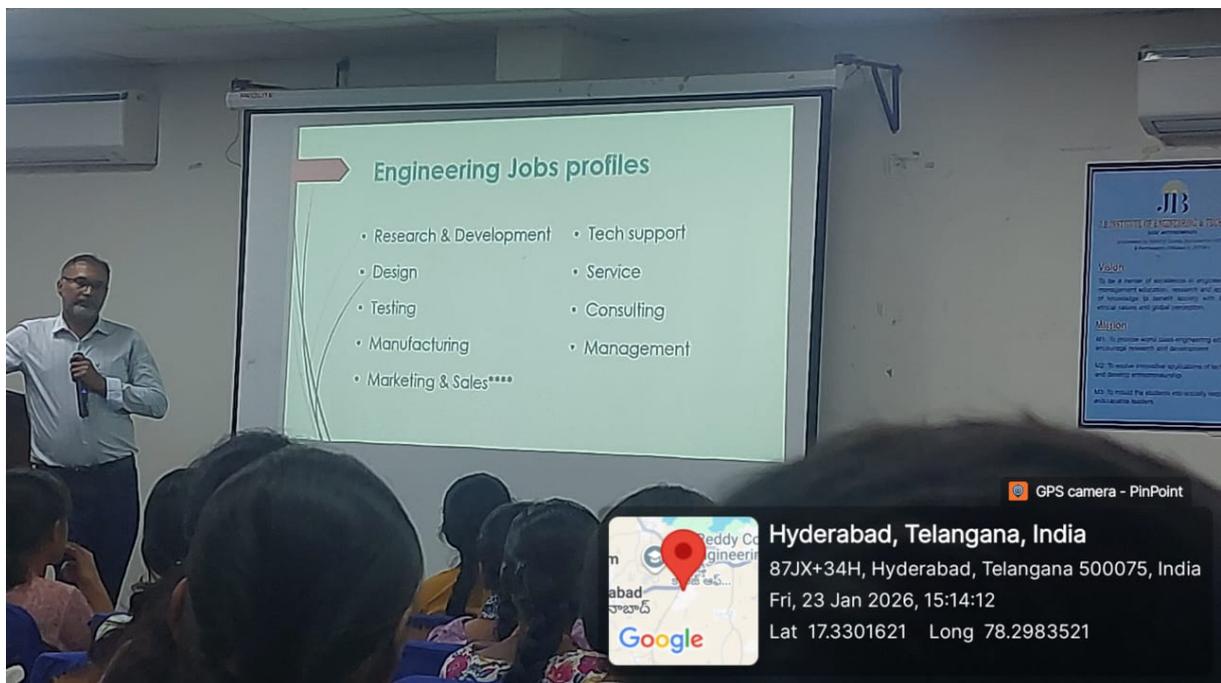


Fig.4. Mr. MD. Akber Ansari highlighting the role of internships in securing employment opportunities.

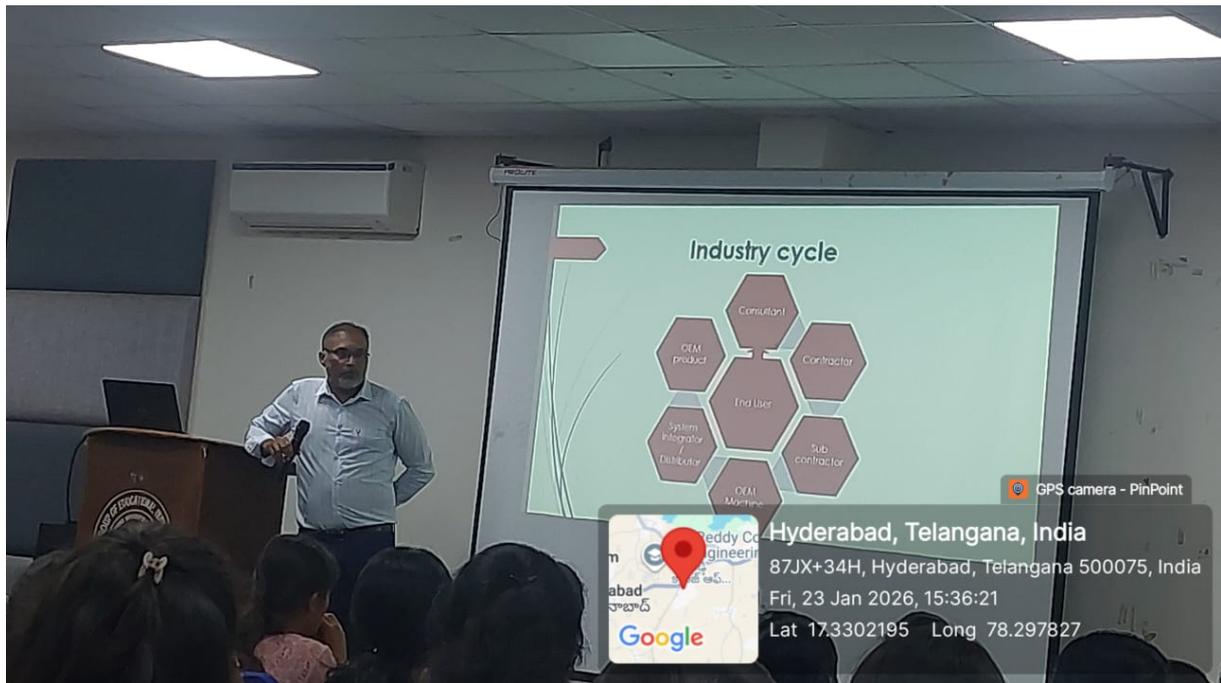


Fig.5. Mr. MD. Akber Ansari explaining the industry cycle and emerging trends in engineering sectors.



Fig.6. Dr. P. C. Krishnamachary, Principal; Dr. I. Sudarsan Kumar, Dean – College Development; Dr. J. Kartigeyan, Dean – Student Affairs; and Dr. P. Duraipandy, Dean – IQAC & HoD – EEE, Dr. Himanshu Sharma, Dean Administration felicitating the resource person with a plant sapling.



Fig.7. Interaction between Mr. MD. Akber Ansari and college leadership on the future growth of the EEE department and industry collaboration.

DEAN OF STUDENT AFFAIRS