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Report on Field Trip for B.Sc. (MSCS) and B.Sc. (Honours) Students -

Date of Report: September 23, 2025

Venue: Government of India, Ministry of Skill Development & Entrepreneurship, Ramanthpur, Hyderabad

Target Students: First-year B.Sc. (MSCS) , Final Years and B.Sc. (Honours) in Computers

Faculty Escorts:

- Mrs. B. Ramani, Head , Department of Computer Science
- Mrs. P. Priyanka, Head , Department of Statistics
- Ms. A. Anusha, Lecturer in Computer science
- Ms. C. Sneha Saahithi, Lecturer in Mathematics
- Ms. R. Lakshmi Himaja, Lecturer in Statistics
- Ms. G. Navya, Lecturer in Computer science

The Department of Computer Science, Statistics, and Mathematics organized a field trip to the **Government of India, Ministry of Skill Development & Entrepreneurship, Ramanthpur, Hyderabad**, on **September 23, 2025**. The purpose of the visit was to provide students with practical exposure to various government initiatives and training programs in the field of skill development, which are directly relevant to their future careers in Information Technology and Computer Science. The trip aimed to bridge the gap between classroom-based theoretical learning and real-world applications, thereby enhancing students' understanding of industry-oriented skill programs and employment opportunities.

A total of **135 students** participated in the visit, including **68 students from B.Sc. (MSCS) 1st Year, 31 from B.Sc. (MSCS) Final Year, 10 from B.Sc. (Honours) 1st Year, 18 from B.Sc. (Honours) 2nd Year, and 8 from B.Sc. (Honours) 3rd Year**. The field trip proved to be highly informative and engaging, offering students valuable insights into modern skill development practices and their significance in advancing professional growth within the IT sector.

Purpose of the Visit

The field trip was organized to provide students with practical exposure to government initiatives in **skill development**, directly relevant to their future careers in the IT and computer science domains. The visit was aimed at bridging the gap between theoretical classroom learning and real-world application.

Educational Value

The visit proved to be highly beneficial for students as it offered valuable insights into:

1. **Vocational Training** – Understanding the importance of skill-based education for employability.

2. **Entrepreneurship** – Learning how government initiatives encourage innovation and self-reliance.
3. **Digital Literacy** – Recognizing the necessity of adapting to emerging technologies in the modern digital era.

Exploration of Technical Labs During the trip, students explored several **specialized technical laboratories** which gave them hands-on exposure and knowledge of advanced tools and technologies:

- **Drone Lab** – Studied different types of drones, their uses, and observed drone practice and simulation activities.
- **CCTV Lab** – Learned about various surveillance technologies including bullet cameras, PTG cameras, drone cameras, dummy cameras, and indoor cameras.
- **Drone Pilot Lab** – Understood drone mapping (similar to Google Maps), and studied the role of carbon fiber in drone manufacturing.
- **Drone Technician Lab** – Gained insights into the maintenance and repair aspects of drones.
- **Process Controller Lab** – Learned about automation processes and control mechanisms.
- **Process Instrumentation Lab** – Hands-on exposure to induction motors and their applications using training kits.
- **Electrical Maintenance Lab** – Observed working of delta task generators and their industrial importance.
- **FTTH (Fiber to the Home) Lab** – Understood cable connections, installation process, and the uses of fiber technology in modern communication.
- **PLC Lab** – Practical exposure to Programmable Logic Controllers and their role in automation.
- **Electronic Machine Lab** – Explored different types of sensors and their real-time applications.

Student Engagement

- Students actively observed demonstrations in each lab and interacted with instructors.
- They gained clarity on how modern tools and techniques are applied in real-world scenarios.
- The hands-on demonstrations provided them with a strong foundation in applied technology and innovation.

Outcome

The field trip was a **highly motivating and informative experience**. It enhanced students' technical knowledge, broadened their understanding of industrial applications, and inspired them to pursue careers in IT, automation, and advanced technological domains.

Conclusion

The educational trip successfully met its objectives by offering experiential learning beyond textbooks. The exposure to diverse technical labs allowed students to connect theoretical concepts with practical applications, preparing them for future academic and professional challenges.





