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**CHH. SHAHU COLLEGE OF ENGINEERING**  
Approved by AICTE-New Delhi, DTE-Govt. of Maharashtra,  
Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere.



**DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE**

## **Detailed Report**

**On**

## **Industrial Visit**

**Academic Year 2024-25**

**Name of the Event: Industrial Visit at Center of Development and Advanced Computing (C-DAC Pune)**

**Date of the Event: 23-05-2025**

**Class: SY & TY**

**Faculty Coordinator: Prof S.S.Date, Prof.M.A.Khan, Prof.S.V.Moin**

### **Objective:**

- To gain practical exposure to cutting-edge technologies like High Performance Computing, AI, and Cybersecurity.
- To understand the role of CDAC in national R&D and technology development initiatives.
- To inspire innovation and research-oriented thinking among students.

### **About Company:**

The **Centre for Development of Advanced Computing (C-DAC)** is India's premier R&D organization under the Ministry of Electronics and Information Technology (MeitY). Headquartered in Pune, C-DAC was established in 1988 in response to the U.S. denial of supercomputing technology to India, leading to the indigenous development of the PARAM series of supercomputers.

**Pioneering Supercomputing:** Developed India's first indigenous supercomputer, PARAM 8000, in 1991, positioning India among the elite nations in supercomputing.

**Research & Development:** Engages in cutting-edge research areas including High Performance Computing (HPC), Artificial Intelligence, Cybersecurity, Blockchain, Health Informatics, and Quantum Computing. **Multilingual Computing:** Promotes Indian language computing through the GIST (Graphics and Intelligence based Script Technology) group, enhancing IT accessibility across diverse linguistic populations.



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**Education & Training:** Offers specialized postgraduate diploma courses in areas like Embedded Systems, VLSI, Big Data Analytics, and Artificial Intelligence through its Advanced Computing Training School (ACTS).

**Global Collaborations:** Has established Centres of Excellence in Information Technology in countries such as Namibia, Armenia, and Myanmar, extending its training and development initiatives globally.

**Innovative Projects:** Recently collaborated with the Pimpri Chinchwad Municipal Corporation to develop a state-of-the-art Rainfall and Flood Forecasting Early Warning System, enhancing urban climate resilience and disaster preparedness.

### Activities undertaken during the Visit:

#### **Introductory Session:**

A briefing about CDAC's mission, history, and its contributions to India's technological advancement.

#### **Technology Demonstrations:**

Live demonstrations of key technologies developed by CDAC such as PARAM supercomputers, AI models, language computing tools, and cybersecurity frameworks.

#### **Laboratory/Facility Tour:**

Guided tours of specialized labs and data centers, showcasing ongoing research in High Performance Computing, Embedded Systems, IoT, and VLSI.

#### **Expert Interaction:**

Interactive Q&A sessions with CDAC scientists and engineers discussing real-world projects and career paths in advanced computing.

### Outcome:

- Gained insights into advanced technologies such as supercomputing, AI, cybersecurity, embedded systems, and multilingual computing.
- Inspired to pursue research, innovation, and development in the field of high-end computing and IT solutions.
- Learned about the architecture and functioning of PARAM supercomputers and how CDAC manages large-scale computation.

### Concluding Remarks:

The industrial visit to CDAC Pune was a highly enriching and insightful experience for all participants. It provided a rare opportunity to witness the nation's pioneering work in advanced computing technologies firsthand. From understanding the development of PARAM





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supercomputers to exploring cutting-edge innovations in AI, cybersecurity, and multilingual computing, the visit bridged the gap between academic learning and practical application.

The interaction with experienced professionals and exposure to real-time R&D projects offered valuable perspectives on current industry trends and future career prospects. This visit not only enhanced our technical knowledge but also ignited a deeper interest in research, innovation, and contributing to India's technological growth.







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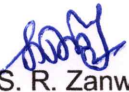
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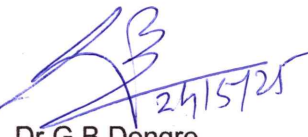


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