Date: 23-03-2026

Academic Year: 2025-2026

Activity: One Day "**Industrial Visit"**- Project Expo at C-DAC: Centre for Development of Advanced Computing, Hyderabad.

Consolidated Report

The Department of Computer Science and Engineering organized an industrial visit to the Centre for Development of Advanced Computing (C-DAC), Hyderabad to attend a Project Expo on 18th March 2026. The visit was arranged as part of the academic curriculum enrichment program to provide students with practical exposure to real-world applications of Information Technology, research activities and advanced computing solutions.

The main objective of the visit was to bridge the gap between theoretical knowledge and practical implementation by exposing students to innovative projects, advanced computing technologies, ongoing research initiatives and industry practices. The Project Expo provided an excellent opportunity for students to interact with researchers and technical experts, helping them understand emerging technological trends, industry expectations and career opportunities in the field of computer science and advanced computing.

A total of 120 students, along with six faculty members and the visit coordinator, actively participated in this educational visit. The Project Expo was highly informative and enabled students to gain valuable insights into practical implementations of concepts such as high-performance computing, artificial intelligence, cybersecurity and data science.

Overall, the visit was successful in enhancing students technical knowledge, motivating innovation and strengthening their understanding of research and development environments.

Additionally, students had the opportunity to observe demonstrations of emerging technologies such as the Internet of Things (IoT), quantum computing, healthcare technologies, and next-generation cybersecurity solutions. The visit also helped students understand the importance of research, innovation, and interdisciplinary collaboration in solving real-world problems. Such industrial visits play a vital role in enhancing students' practical knowledge, improving their technical awareness, and motivating them to pursue careers in research and advanced technology domains. The interaction with experts also encouraged students to focus on skill development and continuous learning to meet industry requirements.

Objectives:

The main objectives of the industrial visit were:

- To provide practical exposure to real-time projects and advanced technologies.
- To bridge the gap between theoretical knowledge and industry practices.
- To create awareness about emerging trends and research activities.
- To understand industry expectations and career opportunities.
- To motivate students towards innovation and project-based learning.

Activities During the Visit:

1. Introduction:

The III-Year students of the Department of Computer Science and Engineering, NNRG College participated in an industrial visit to C-DAC, Tarnaka, Hyderabad as part of a Project Expo. The visit aimed to provide practical exposure to emerging technologies and to create awareness about government initiatives in the Information Technology sector.

2. About the Organization:

The Centre for Development of Advanced Computing (C-DAC) is a premier Research and Development organization under the Ministry of Electronics and Information Technology (MeitY), Government of India. The organization focuses on advanced computing, software development and IT solutions, contributing significantly to India's technological growth..

3. Objective of the Visit:

- To understand real-world applications of modern technologies.
- To explore government initiatives in IT and digital transformation.
- To interact with experts and enhance students' technical knowledge.

4. Overview of the Project Expo:

The Project Expo consisted of several stalls representing various technological domains. Each stall demonstrated innovative projects, research initiatives and technology-driven solutions. Technical experts provided detailed explanations and live demonstrations of the working models.

5. Key Technology Stalls Visited:

Students visited various technology stalls including:

- **ACTS Training:** Information on advanced computing training programs focusing on AI, cybersecurity, and software development.
- **MeitY Skill Development:** Initiatives to enhance digital skills and employability.
- **ISEA (Information Security Education and Awareness):** Cybersecurity awareness and safe internet practices.
- **Education Technology:** Digital learning platforms and smart education tools.
- **Internet of Things:** Applications in smart homes, agriculture and industrial automation.
- **Healthcare Technology:** Technology applications such as telemedicine, digital health records, and AI-based diagnostics.
- **Kavach System:** Railway safety technology designed to prevent train collisions.
- **Strategic Technologies**: Technologies related to national security including AI and cybersecurity.
- **Exascale Computing:** High-performance computing for complex scientific applications.
- **Chip-in Centre (Semiconductor Initiative):** India's semiconductor development initiatives.
- **Quantum Computing:** Next-generation computing based on quantum mechanics.

- **International Space Station (ISS):** Information related to space research and scientific experiments.
- **Next-Generation Mobility Solutions:** Smart transportation technologies including electric vehicles (EVs), autonomous vehicles, intelligent traffic systems and sustainable mobility solutions
- **DIR-Vega Processor:** India's indigenous high-performance microprocessor developed for strategic and scientific computing applications under national supercomputing initiatives.
- **Next Generation Cyber Security:** Advanced cybersecurity techniques including zero-trust architecture, AI-driven threat detection, blockchain security and cloud security frameworks.
- **Marine Technologies:** Technologies related to ocean research, underwater robotics, marine communication systems, coastal monitoring and sustainable use of marine resources.
- **Agriculture Technologies:** Use of modern technologies such as precision farming, drones, IoT sensors and AI-based crop monitoring to improve agricultural productivity and sustainability.

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DIR- VEGA PROCESSOR
39th Foundation Day & Tech Showcase
VEGA Processors
CDAC


EDUCATIONAL TEC
CDAC
BAMS
Kvizz


MARITIME TECHNOLOGIES
Digital Centre of Excellence (MDCoE)
CDAC
GPS Map Camera
Hyderabad,Telangana,India
Inner Ring Road, Tarnaka, Hyderabad, Telangana 500007, India
Lat 17.422219, Long 78.539108
Wednesday, 18/03/2026 10:46 AM GMT+05:30
Note : Captured by GPS Map Camera

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6. Quiz Competition:

A quiz competition was organized for students as part of the expo. The questions focused on technology and general awareness, making the session interactive and informative.

7. Prizes and Recognition:

Students who performed well in the quiz competition were awarded prizes, which encouraged active participation and enthusiasm.

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Students receiving prizes during the Project Expo Quiz Competition

8. Experience and Learning Outcomes:

The visit was highly informative and provided students with exposure to emerging technologies and their practical applications. Interaction with industry experts enhanced their understanding of current technological developments and research opportunities.

9. Outcome:

The Project Expo provided students with exposure to innovative projects and emerging technologies such as AI, IoT, cybersecurity and quantum computing. Students gained practical insights into real-world applications and understood current industry trends and research opportunities..

10. Conclusion:

The visit to the Project Expo at C-DAC, Hyderabad was a successful learning experience. It enhanced students' technical knowledge and awareness of advanced computing technologies. Such visits are essential for improving practical understanding and encouraging innovation among students..

Group Photo of III B.Tech CSE-A Students with Faculty Members

Group Photo of III B.Tech CSE-B Students with Faculty Members

Group Photo of III B.Tech CSE-C Students with Faculty Members

Group Photo of III B.Tech IT Students with Faculty Members

Group Photo of Students and Staff with M. Kumar, Scientist 'F' – C-DAC

The Department of CSE expresses its heartfelt gratitude to the officials of C-DAC for their valuable time, guidance and insightful interactions. The visit significantly enhanced students understanding of industrial environments and professional development.

FACULTY COORDINATOR **HEAD-CSE**