A REPORT OF

INDUSTRIAL VISIT

BY THE STUDENTS OF

MCA | M.Sc. (CS) | B.Sc. (CS)

OF

DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION

ATAL BIHARI VAJPAYEE UNIVERSITY, BILASPUR, (C.G.)

AT

INTEGRATED COMMAND AND CONTROL CENTRE (ICCC) BILASPUR SMART CITY LIMITED (BSCL), BILASPUR (C.G.)

29 JUNE, 2024

EVENT DETAILS

On June 29, 2024, the Department of Computer Science and Application at Atal Bihari Vajpayee University, Bilaspur, organized an industrial visit for 54 students from MCA, M.Sc. (CS), and B.Sc. (CS) to the Integrated Command and Control Centre (ICCC) operated by Bilaspur Smart City Limited (BSCL). The visit, convened by Dr. H.S. Hota and coordinated by Dr. Shriya Sahu, aimed to familiarize students with the advanced technological implementations under the Smart City initiative in Bilaspur.

Activities and Key Implementations:

Intelligent Traffic Management System (ITMS), City Surveillance System, and ICCC: Students were introduced to the ITMS, which integrates traffic signals and surveillance cameras to manage traffic flow effectively. The ICCC acts as the nerve center, coordinating various city operations.

Geographical Information Centre (GIS): The GIS facility was showcased, demonstrating how spatial data is utilized for city planning, infrastructure development, and disaster management.

Intelligent Waste Management System (IWMS): The design, development, implementation, operation, and maintenance of IWMS were explained. Students learned about the integration of IoT and smart sensors for efficient waste collection and disposal.

E-Paathshaala (Smart Classrooms) and Digital Library: The initiative to establish smart classrooms in schools across Bilaspur and the digital library project were highlighted, focusing on enhancing educational facilities through technology.

Pilot on IoT based Digitalization of Potable Water Distribution Network: A pilot project under the City Innovation Exchange platform was presented, showcasing IoT applications in monitoring and managing the water distribution network.

EVENT DETAILS

During the visit to Bilaspur Smart City Limited's Integrated Command and Control Centre (ICCC), students from Atal Bihari Vajpayee University actively engaged with experts and authorities, delving into the intricacies of various technological implementations. They posed insightful questions about the Intelligent Traffic Management System (ITMS), City Surveillance System, and the challenges involved in integrating these systems into a cohesive smart city infrastructure. This interaction proved invaluable, providing a practical dimension to their theoretical knowledge acquired in their academic curriculum.

Following the comprehensive tour, Dr. H.S. Hota, Head of the Department of Computer Science and Application, addressed the students. He underscored the significance of industrial visits like these in bridging the gap between theoretical learning and real-world applications in industry. Dr. Hota encouraged the students to leverage their experience to innovate and contribute meaningfully to future smart city initiatives, emphasizing the role of technology in urban development.

The visit concluded on a formal note with Dr. Shriya Sahu, the visit coordinator, extending a heartfelt vote of thanks to BSCL and all involved parties. She expressed gratitude for the opportunity provided to the students to witness cutting-edge technologies firsthand and for the insights gained into smart city development. A group photograph captured the enthusiasm and camaraderie among the students, marking the culmination of a highly informative and enriching industrial visit.

Overall, the visit to BSCL's ICCC was a transformative experience for the students, offering them practical exposure to state-of-the-art technologies and their applications in smart city development. Such initiatives not only broaden their horizons but also equip them with the skills and insights necessary to tackle future challenges in the field of computer science and application within smart city environments.

ABOUT ICCC BILASPUR

Government of India launched the Smart Cities Mission (SCM) on 25 June 2015. 100 cities have been selected for development as Smart Cities through 4 rounds of competition from January 2016 to June 2018.

An important milestone achieved in the Mission has been the operationalization of Integrated Command and Control Centers (ICCC) in all Smart Cities. These ICCCs work as the brain and nervous system for city operations. They have led to better management of urban services in diverse fields like crime tracking, safety & security of citizens, transport management, solid waste management, water supply etc.

One of the salient features of ICCCs is their ability to foster inter-departmental coordination. Various key departments of the city like Traffic Police, Health, Water, Solid Waste management, Irrigation department etc. have been integrated with ICCCs. One of the most important integrations achieved in most cities is with the Police department. ICCCs have been successful in improving surveillance, enhancing safety and security of citizens, preventing and resolving crimes etc. Efforts to link ICCCs with criminal data base under CCTNS (Crime and Criminal Tracking Networks and System) have been undertaken. The integration with CCTNS boosts a city's ability for effective policing by developing and integrating data and crime records across police stations and providing centralized citizen portal for a number of citizen-friendly services.

In accordance with GoI guidelines, Bilaspur Municipal Corporation established BSCL as a Special Purpose Vehicle (SPV). BSCL manages end-to-end processes for vendor selection, implementation, and operationalization of smart city projects.

Bilaspur Smart City Key Implementations:

1. Intelligent traffic management system (ITMS), City Surveillance System and Integrated Command and Control Centre (ICCC).
2. Geographical Information Centre (GIS).
3. Design, development, implementation ,Operation and maintenance of Intelligent Waste Management System(IWMS).
4. E- Paathshaala (Smart classrooms) in various Schools of Bilaspur.
5. Digital Library.
6. Pilot on IOT based Digitalization of Potable Water distribution Network at Ward 43– Under City Innovation Exchange platform.

FLYER

Department of

COMPUTER SCIENCE & APPLICATION

Atal Bihari Vajpayee University, Bilaspur (C.G.)

INDUSTRIAL VISIT

By the Students

of

MCA | M.Sc.(CS) | B.Sc.(CS)

ON

29, JUNE 2024, 11:30 AM

at

Integrated Command and Control Center

Bilaspur Smart City Limited (BSCL), Bilaspur

Convenor

Dr. H. S. Hota

Professor and Head
Dept. of CSA
Atal Bihari Vajpayee University
Bilaspur, Chhattisgarh, India

Coordinator

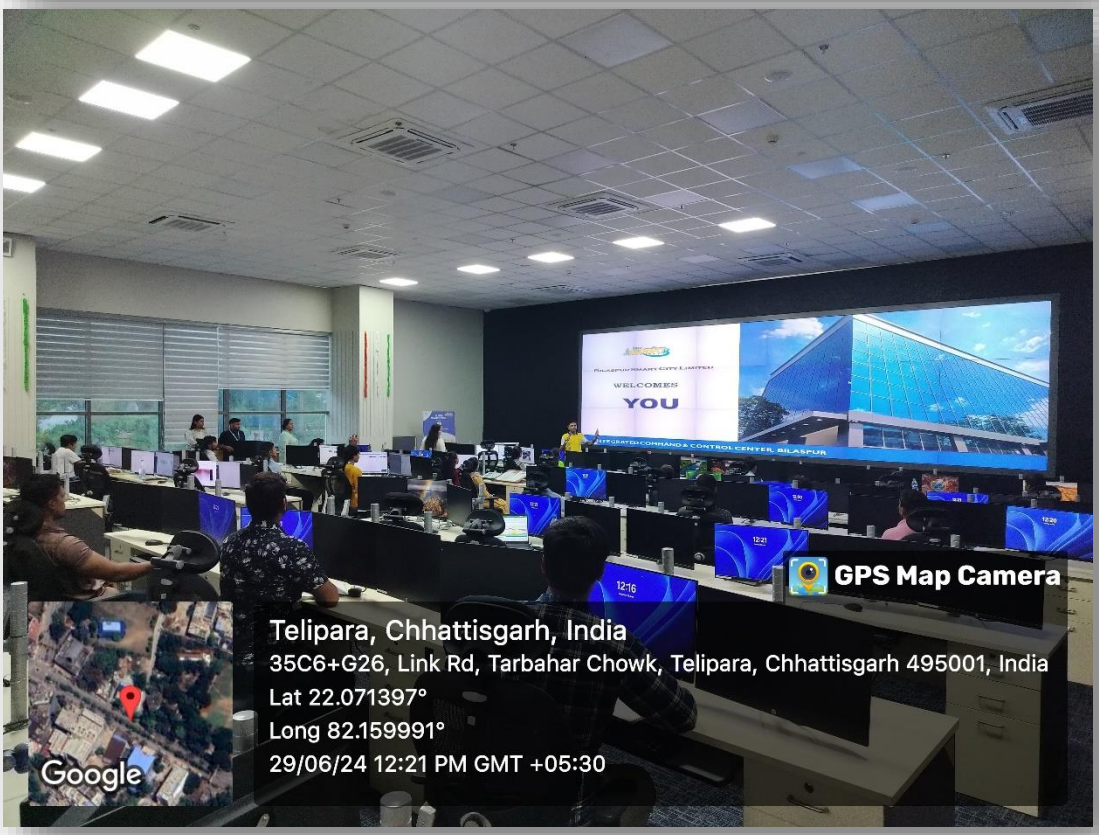
Dr. Shriya

Dept. of CSA
Atal Bihari Vajpayee University
Bilaspur, Chhattisgarh, India

Address: 35C6+66C, Bilaspur, Vidya Nagar, Chhattisgarh 495004

GLIMPSES

BILASPUR SMART CITY LIMITED
WELCOMES
YOU
INTEGRATED COMMAND & CONTROL CENTER, BILASPUR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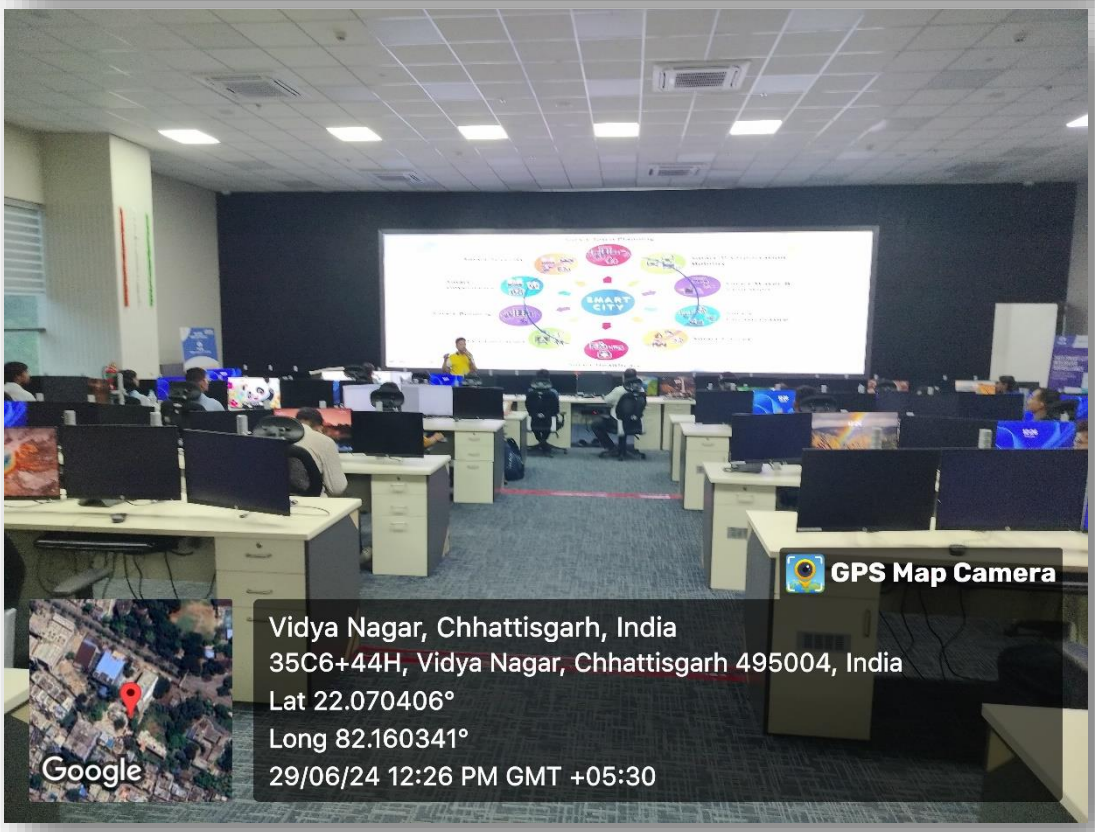
GLIMPSES

About Bilaspur Smart City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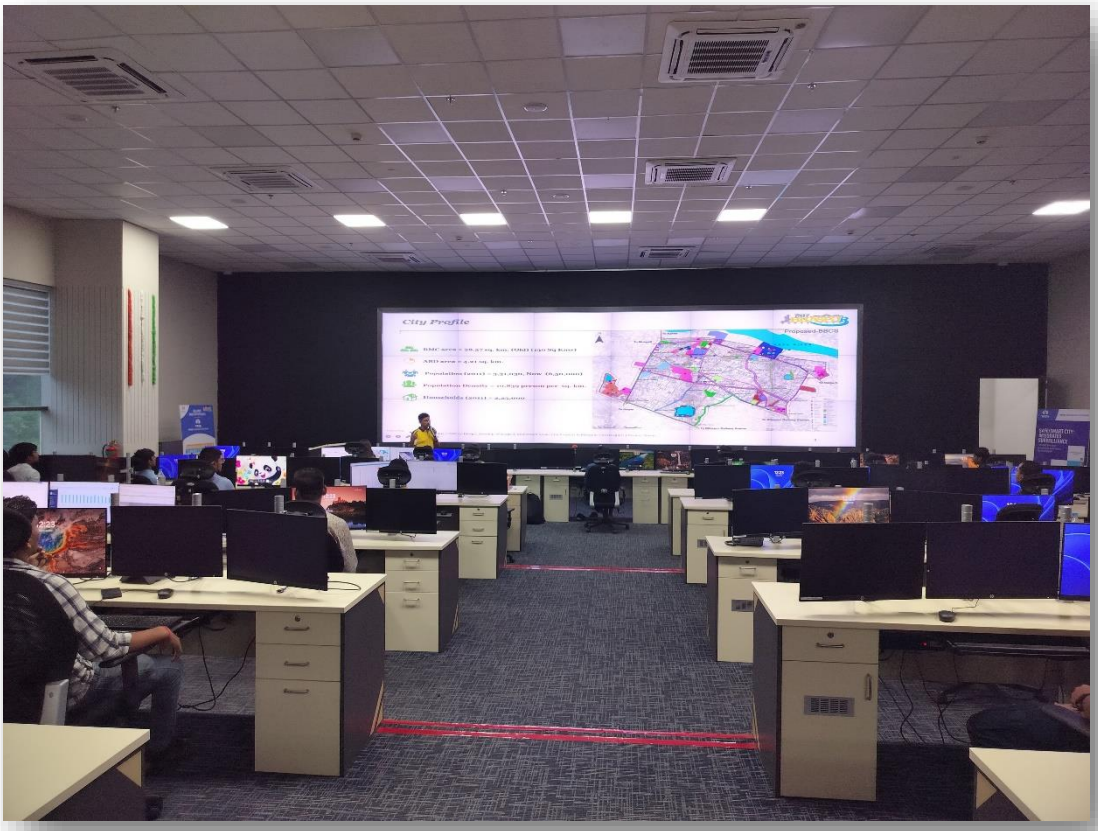
City Profile

INNOVATIONS BY BILASPUR ICCC
EFFECTIVE USE OF GIS LAYERS
Effective and innovative use of GIS layers
1. Schools' data layer for monitoring teacher and student activities
2. Street light data for rectification via app
3. Drain network data and contours for Kagar Nigam's drain order marking
4. Building footprints for PT calculations and IWMS

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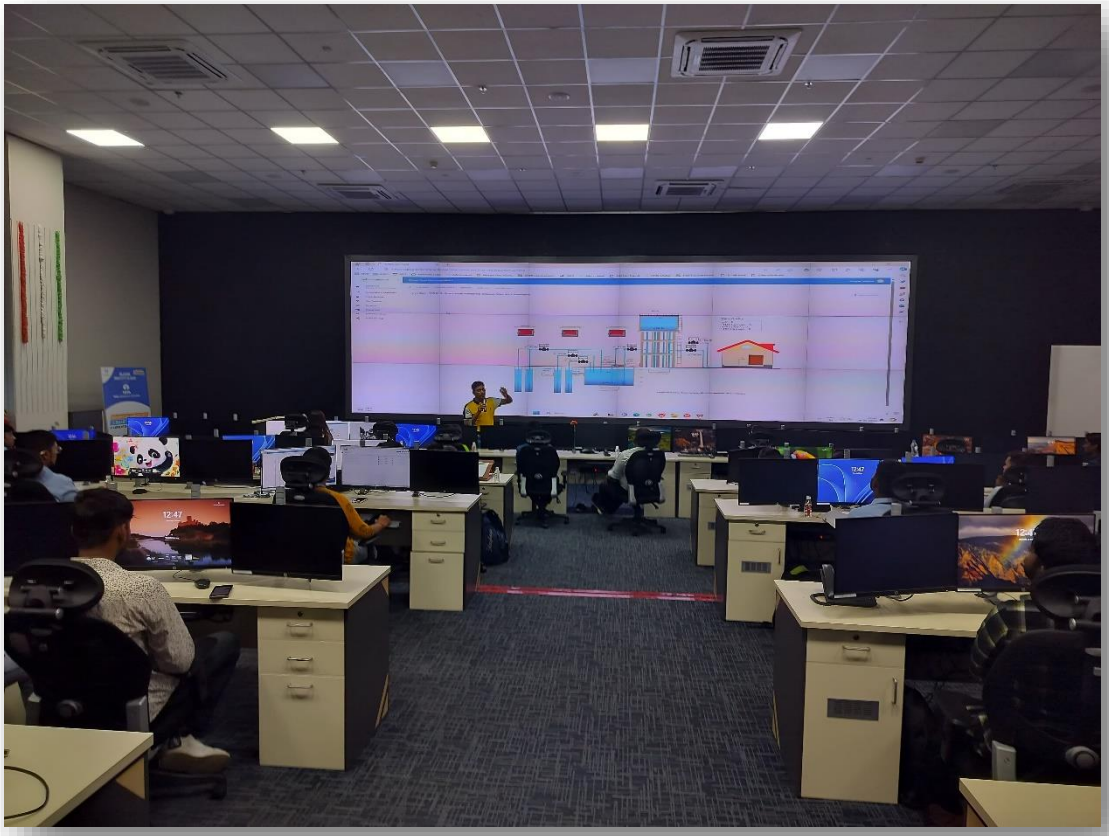

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Major Cases Resolved
Summary of Cases Solved by ICCC
From 03.07.2023 to 28.06.2024
Sl. no
Incident
Count
1
Accident
2
Theft
3
Belonging Left
30
4
Loot
5
Missing Person
4
Total
50

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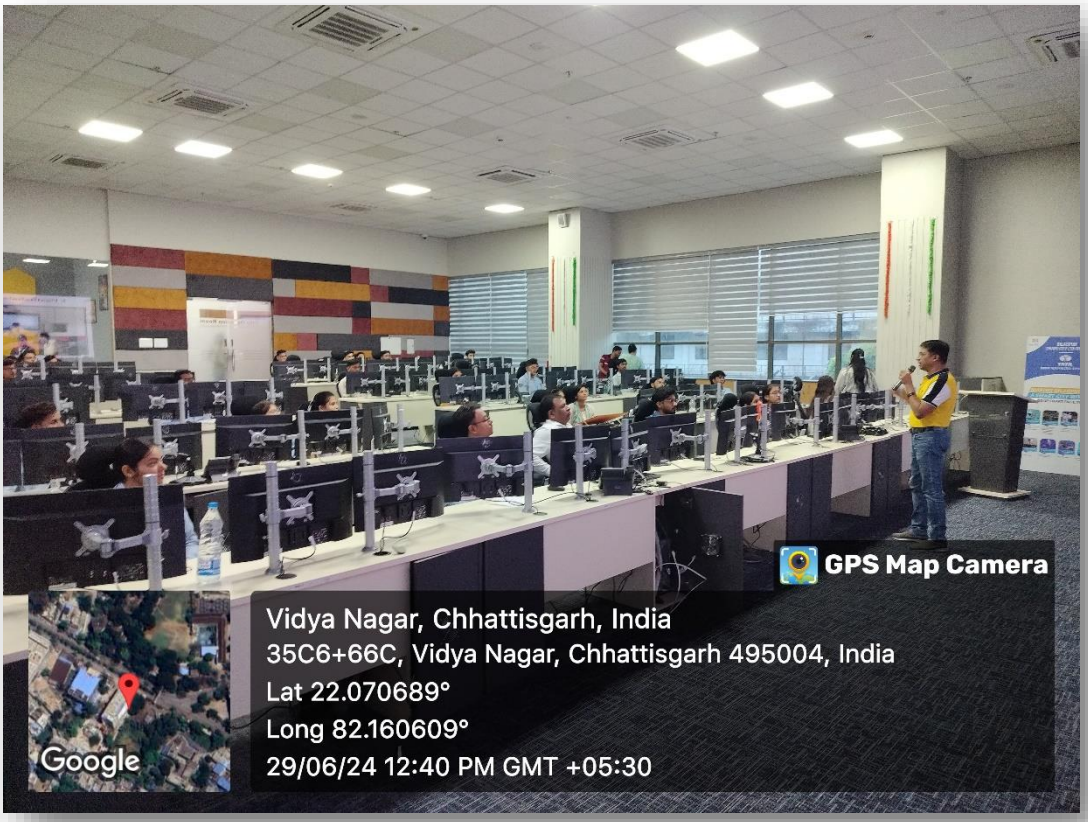
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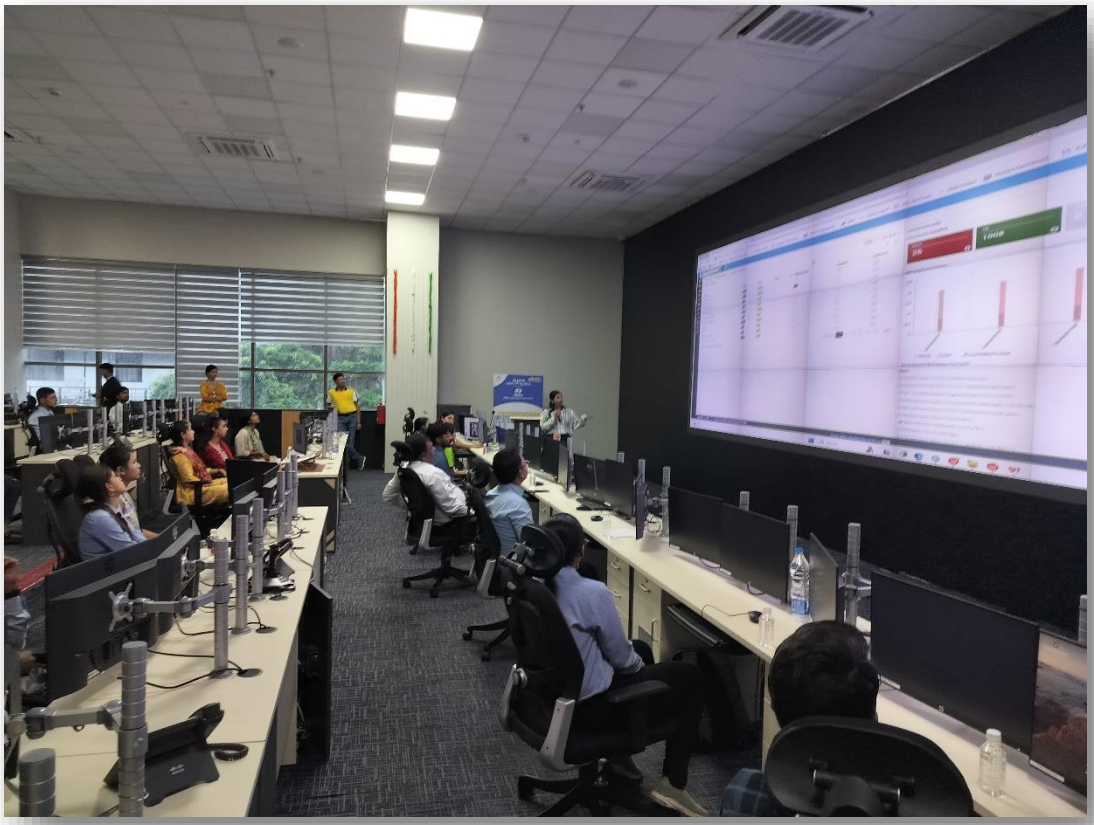

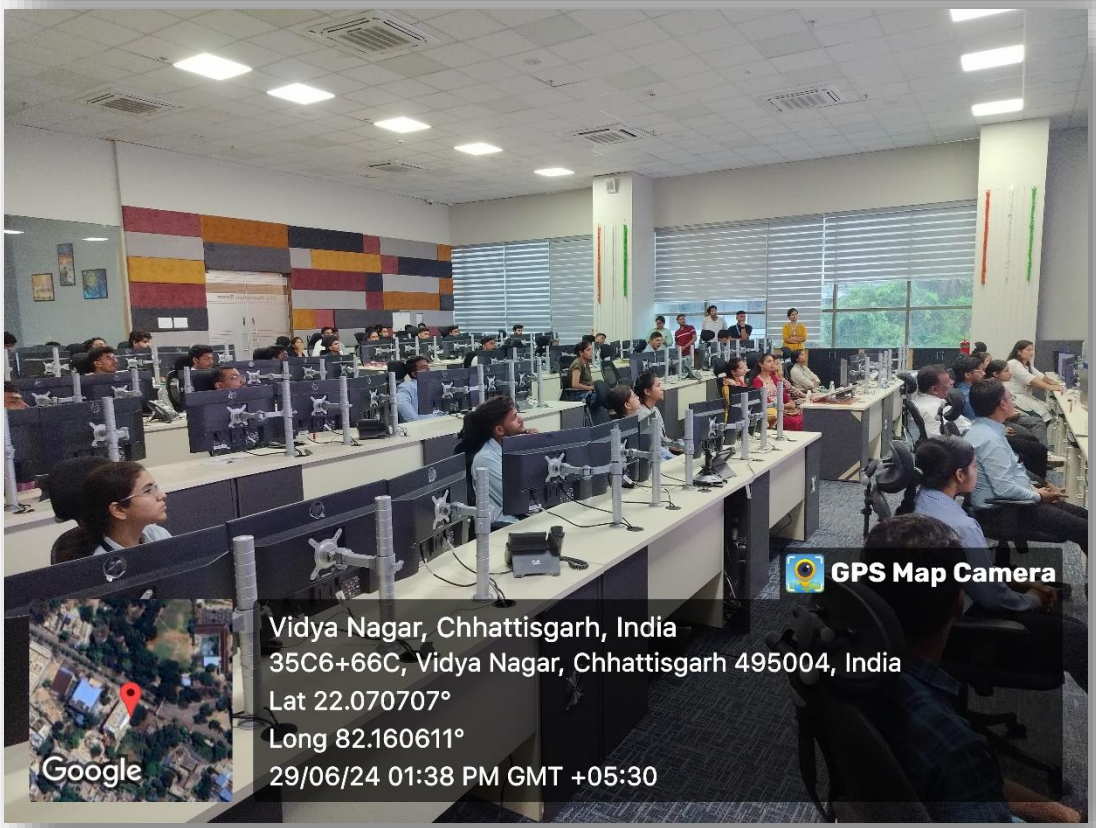
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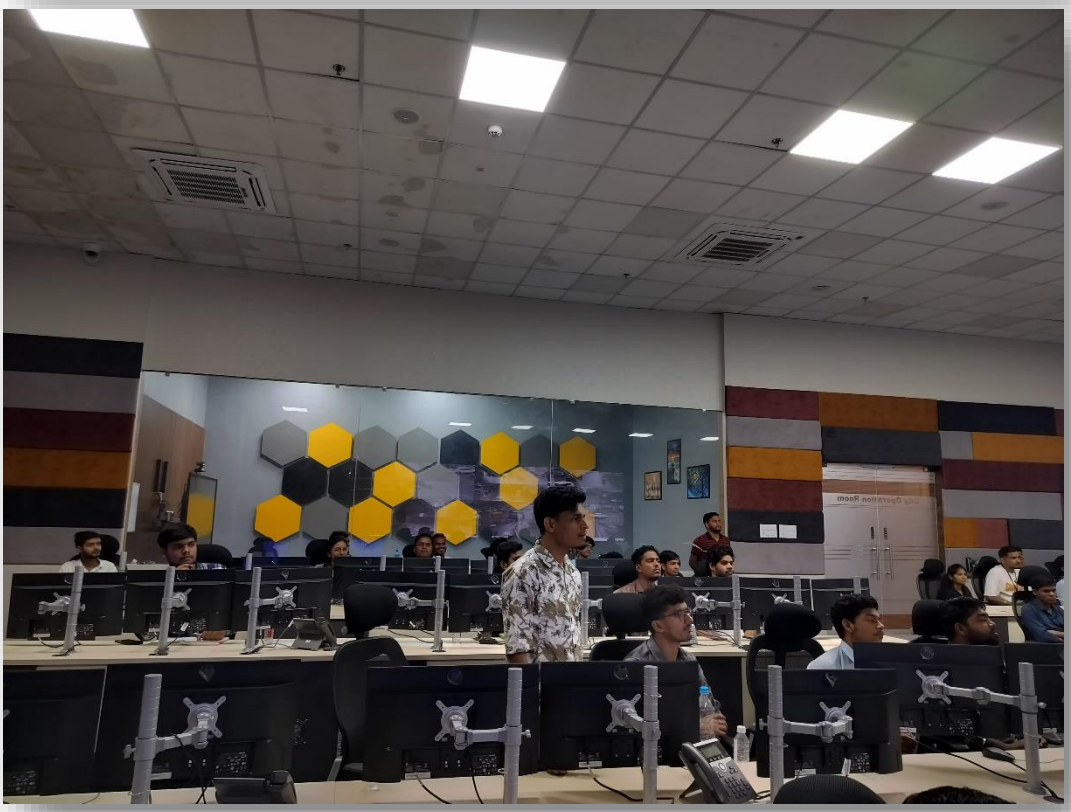
STUDENT INTERACTION



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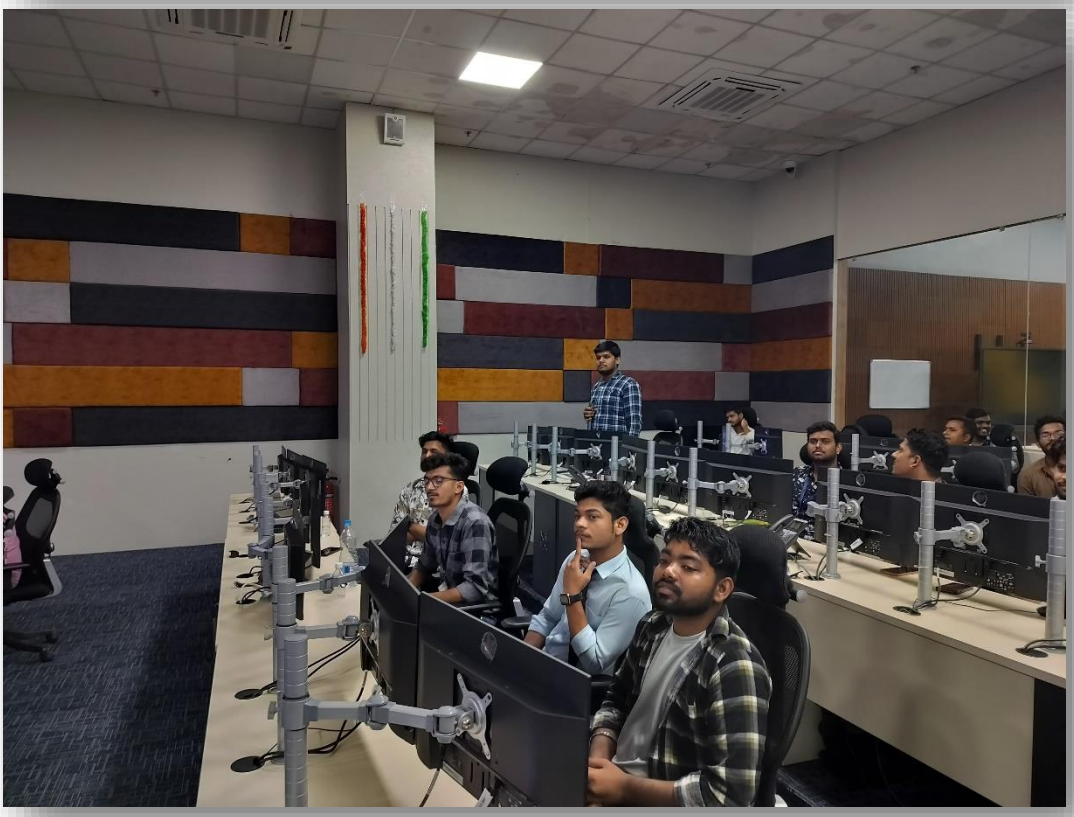

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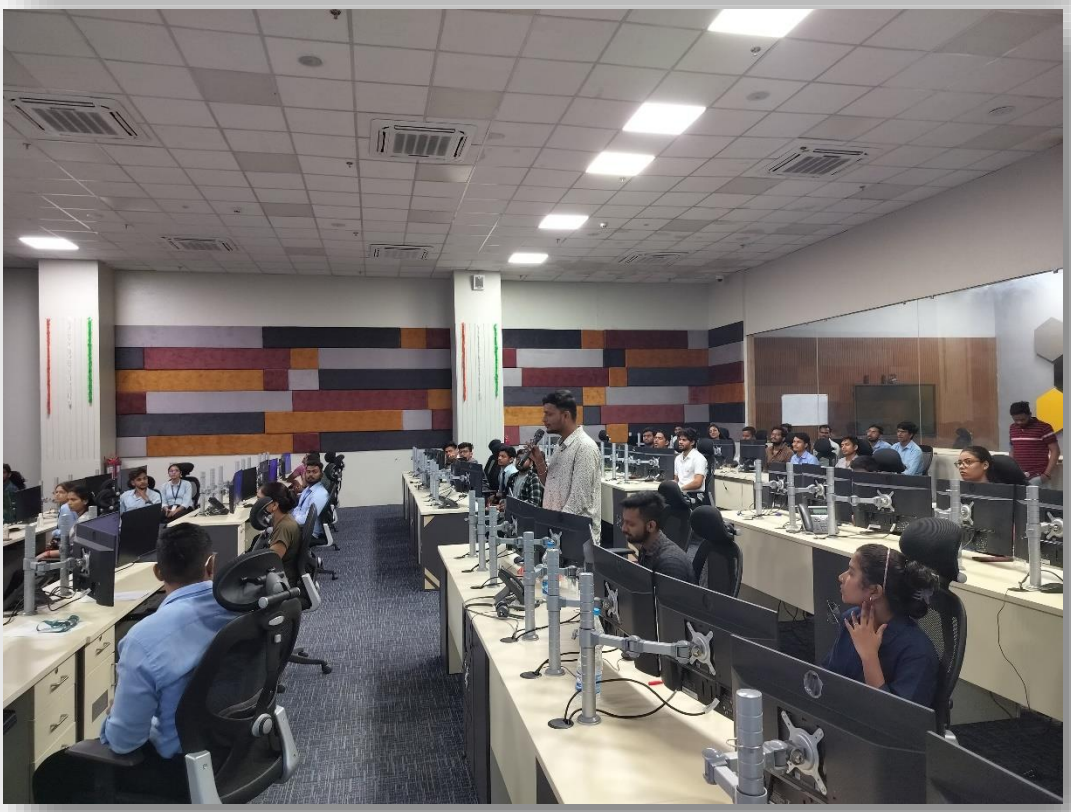

STUDENT INTERACTION

STUDENT INTERACTION

VOTE OF THANKS

GROUP PHOTOGRAPHS AT THE END

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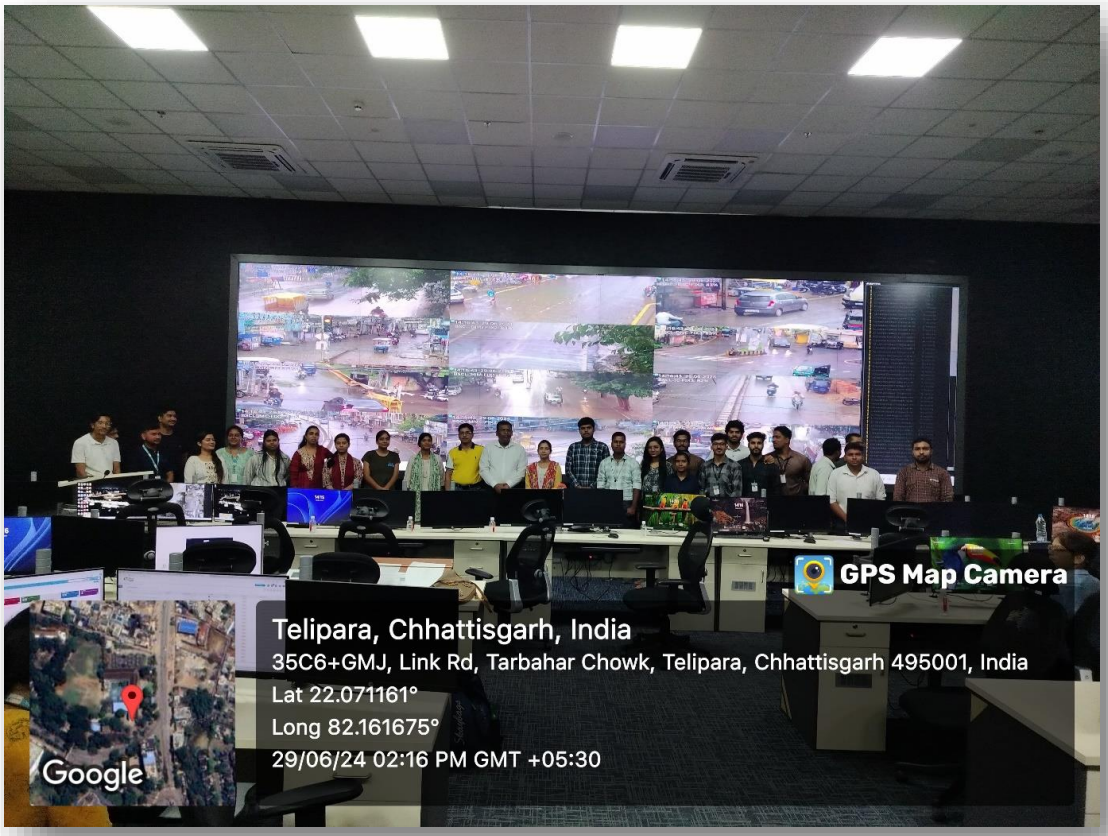

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