# Dr. Akhilesh Das Gupta Institute of Professional Studies
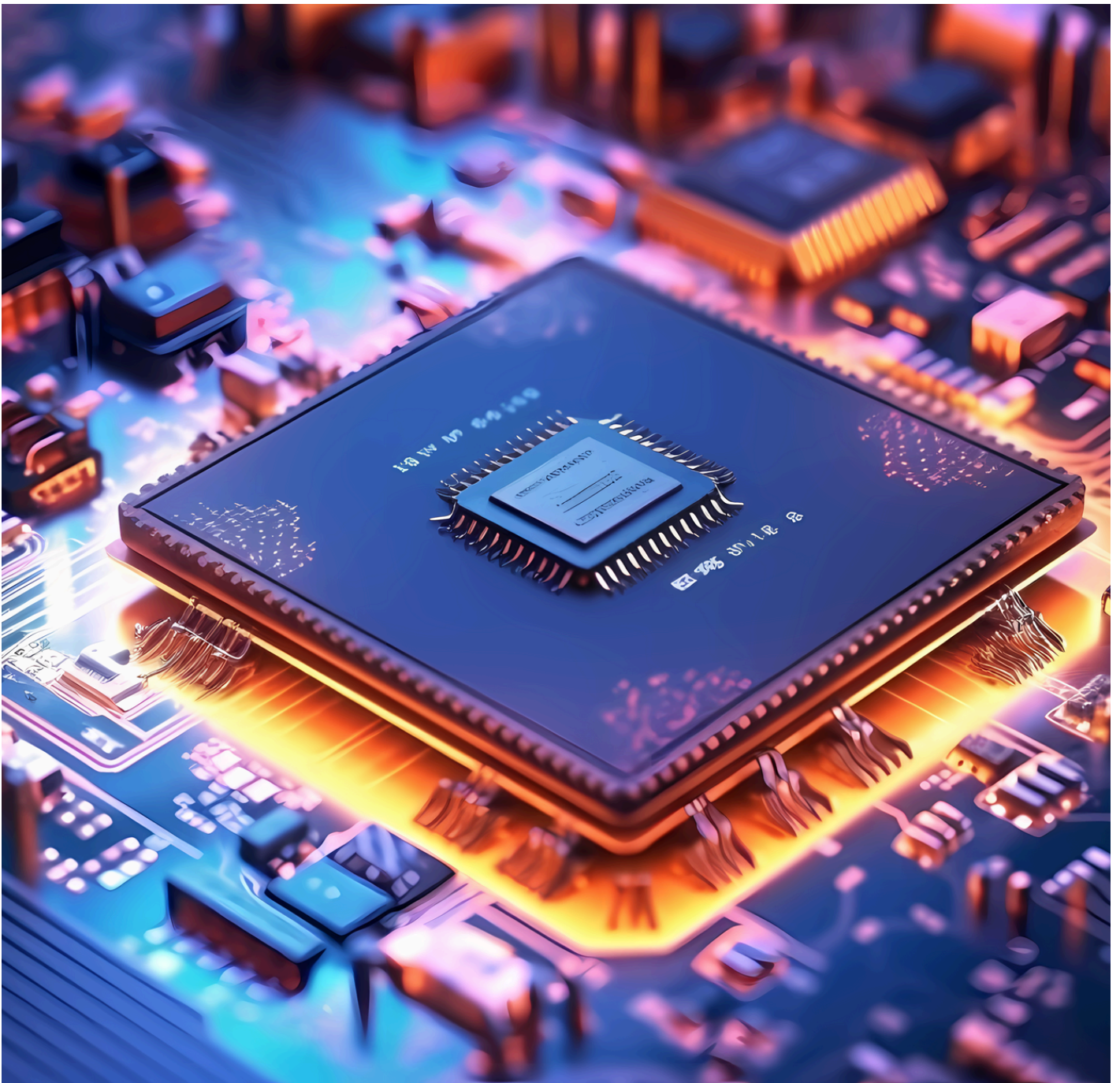
**ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT**

# ECE- TELLER



**JANUARY 2024 - APRIL 2024**

# DARK PATTERNS BUSTER HACKATHON

## DARK PATTERN BUSTER HACKATHON 2024

Dark Pattern Buster Hackathon 2024 is a nationally recognized initiative that aims to give the students a forum to resolve actual problems while also fostering a culture of product creation and a problem-solving mindset. As a stepping stone to the DPBH, the Dr. Akhilesh Das Gupta Institute of Technology & Management (ADGITM) hosted an internal hackathon.

It was a one-day internal hackathon held on the January 30, 2024 to select the top 10 teams that will be nominated for DPBH 2024. The selection procedure consisted of delivering an idea presentation that included a team introduction, a problem statement that included the student's approach to the solution, and the execution of the solution. In total, 15 teams competed in this event under multiple categories, each working on an idea or problem statement and offering a solution.





A digital product development competition in which the majority of the team members had prior programming experience. Multidisciplinary teams with a healthy mix of Engineers and Programmers engaged in the hardware version.

In total, 15 teams competed in this event out of which 2 teams of ECE department participated under multiple categories, each working on a separate idea or problem statement and offering a solution. The hackathon's programming edition had been a digital product development competition in which the majority of the team members had prior programming experience. Multidisciplinary teams with a healthy mix of Mechanical Engineers, Computer Engineers, IT Engineers, Electronic Engineers, Product Designers, and Programmers engaged in the hardware version.

# EXPERT TALK ON INTELLECTUAL PROPERTY RIGHTS & IT'S SIGNIFICANCE IN RESEARCH AND INNOVATION

## FEBRUARY 16, 2024

### TO MOTIVATE STUDENTS TO INVESTIGATE THEIR INCLINATIONS TOWARD IPR & IT'S SIGNIFICANCE IN RESEARCH AND INNOVATION.

ECE Department of ADGIPS, Delhi had organized an expert talk by Dr. Prachi Chopra, Founder and Director in Intellect Bastion LLP on the topic Intellectual Property Rights and its significance in research and innovation on 16th Feb, 2024.

The aim of this expert talk would be effective research activities and patent filling process. Enable students to Understanding Intellectual Property (IP), Importance of IP in Research and Innovation, IP Management and Enforcement, Global Perspectives and Legal Frameworks, Ethical and Social Implications and also encourage active participation and engagement from participants through discussions, Q&A sessions, and interactive activities. Over 60 students have participated in the event.
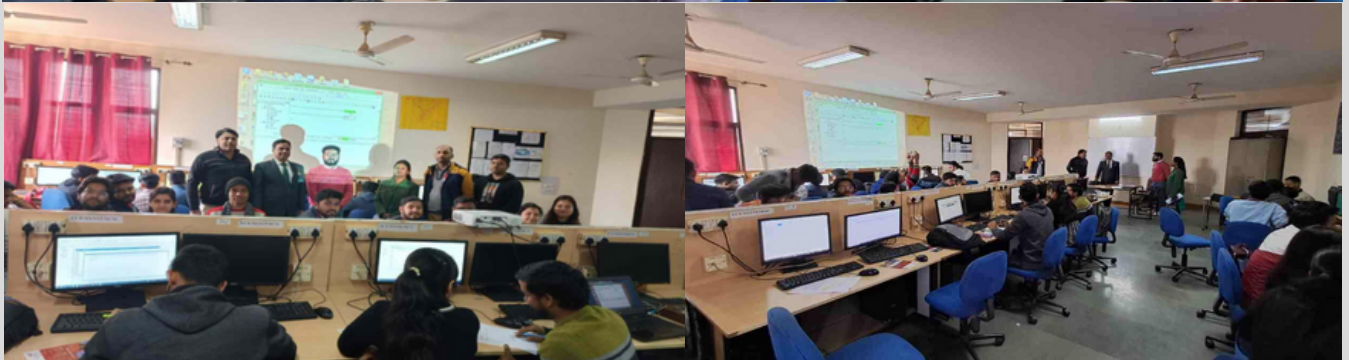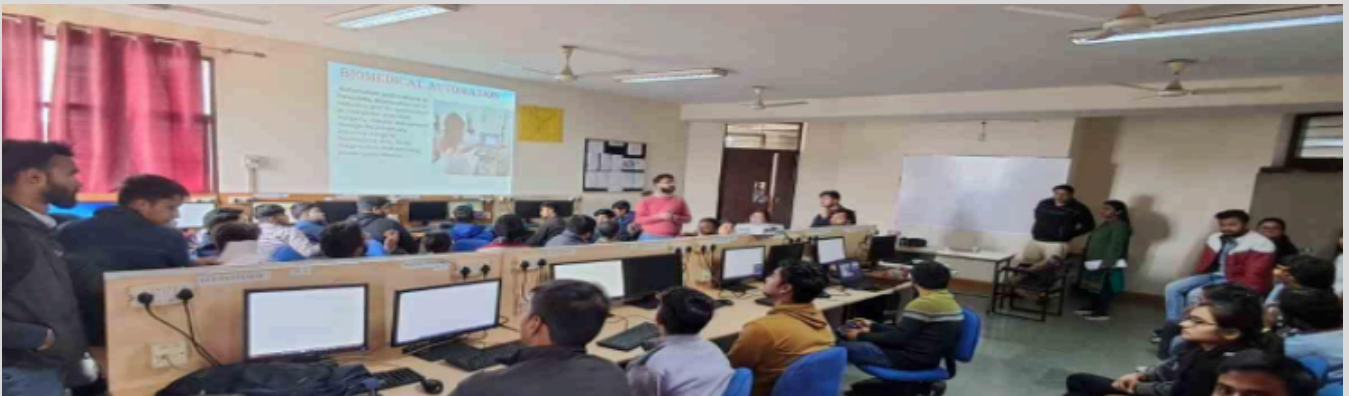
# WORKSHOP ON INDUSTRIAL AUTOMATION PLC SCADA

**FEBRUARY 15, 2024**

## MOTIVATE STUDENTS TO LEARN ABOUT THE BASIC FUNDAMENTALS OF AUTOMATION TOOLS.

CE Department of ADGIPS, Delhi had organized a workshop by Mr. Parmish Chaudhary (Sr. Automation Trainer) From Live Wire, on the topic of Industrial Automation PLC AND SCADA on 15th Feb, 2024.

The aim of this workshop is to clear the basic fundamentals of some automation tools like PLC, SCADA, HMI and VFD with the use of Hardware and Software. Students learn how to program PLCs using industry-standard programming languages such as ladder logic, function block diagrams (FBD), structured text (ST), or sequential function charts (SFC). They understand how SCADA systems collect real-time data from sensors, meters, and other devices, and how to visualize and monitor this data using SCADA software.
Also they gain a foundational understanding of industrial automation principles, including how PLCs and SCADA systems are used to control and monitor industrial processes.

# INDUSTRIAL VISIT TO IIT ROORKEE

**FEBRUARY 19, 2024**

**INDUSTRIAL VISIT TO DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING STUDENTS TO DEPARTMENT OF ELECTRICAL ENGINEERING AT INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

To provide students with practical insights into state of Electrical Labs and the recent trends in research and Development as well as Industrial Consultancy by the Departments. It is pertinent to mention that major electronics labs are in Electrical Engineering Department at IIT's.

The visit comprised several activities designed to enhance students' understanding of the modern Labs and their operational processes.





Students gained practical exposure to state-of-the-art the advanced control lab, Advanced Robotics Lab, Applied Electronics Lab, Applied Instrumentation Lab, Autonomous Vehicle Dynamics and Control Lab, Bio-Medical Instrumentation Lab, Control & Robotics Lab, Embedded Systems Lab, Instrumentation & Signal Processing Lab, Machine Learning Lab, Microprocessor and Computer Lab, Power Electronics Lab, Power System Protection Lab, Power System Simulation Lab, which complemented their theoretical knowledge acquired in the classroom.



The visit facilitated networking opportunities with professionals and researchers working in the field of the technological development sector. Students could establish connections, seek guidance for future projects or research endeavours, and explore potential internship, research, and job opportunities in the Electronics Field.

# SAMVEDNA - PAWSITIVITY SESSION

## PROMOTING RESPONSIBLE ANIMAL HEALTH CARE PRACTICES

The event commenced with a warm welcome from the organizers, followed by a brief introduction to the mission and values of Pawsitivity Society of ADGIPS for Animal Health Care, focusing on how volunteers work to care for the health and well-being of stray/pet animals.

The session served as a reminder of the importance of empathy and care towards all living beings, reflecting our values in nurturing not only technical expertise but also compassion and social responsibility.





Attendees were encouraged to actively participate and share their experiences throughout the session. The interactive format included distributing chocolates to those who participated in the questionnaire, followed by a Q&A session where attendees had the opportunity to seek personalized advice.

Participants raised insightful questions on a wide range of topics, fostering meaningful dialogue and knowledge exchange among attendees and speakers. Throughout the event, participants were informed about and encouraged to get involved in animal care initiatives.

# SAMVEDNA- DONATION DRIVE

## SUPPORTING UNDERPRIVILEGED CHILDREN THROUGH DONATION DRIVE

On February 6, 2024, the National Service Scheme (NSS) of ADGIPS, in collaboration with Vrikshit Foundation, organized a Donation Drive aimed at supporting underprivileged children. The drive sought donations of essential items such as packed foods, books, notebooks, pens, pencils, and other school supplies to benefit the less fortunate.

The event took place throughout the day near the canteen, offering convenient access for participants to contribute to the cause. Attendees were encouraged to donate items that would positively impact the lives of disadvantaged children.





Additionally, attendees were briefed about the Vrikshit Foundation and its initiatives, and they were encouraged to join the foundation and contribute to its noble cause. The Donation Drive garnered significant support, with more than 30 donations received.

The generous contributions from participants demonstrated community's willingness to unite and support those in need. Tne conclusion, the Donation Drive organized by NSS and Vrikshit Foundation exemplified the power of collective action in addressing social issues and supporting underprivileged children. Through the generosity and support of participants, the event successfully contributed to improving the lives of those less fortunate while also promoting the mission of the Vrikshit Foundation.

# SAMVEDNA - VRIKSHIT SPEAKER SESSION

**FEBRUARY 06, 2024**

## FOSTERING ENVIRONMENTAL AWARENESS AND CIVIC RESPONSIBILITY

On February 6, 2024, the National Service Scheme (NSS) of ADGIPS, in collaboration with Vrikshit Foundation, hosted an event aimed at fostering environmental awareness and civic responsibility. The event focused on inspiring students to contribute to noble causes for a cleaner and healthier India.

Speakers from Vrikshit Foundation, including Prerna Bhura, Team Coordinator, and Pranjal Jain, HR Recruiter, shared insights into the organization's goals, responsibilities, and projects. Prerna Bhura's inspiring speech highlighted Vrikshit Foundation's impactful initiatives such as wall paintings, pond clean-ups, and park revitalization projects.

Q&A session was held, where students posed questions about the challenges faced during the implementation of these projects and the strategies employed to overcome them. They provided insightful answers, sharing their experiences and offering practical solutions to address environmental issues.

The event served as a catalyst for providing a sense of responsibility towards our planet. Attendees actively engaged with the speakers through discussions, reflecting on their role in preserving the environment. Students were eager to learn more about sustainable practices and expressed their commitment to implementing them in their daily lives. The importance of community engagement in creating a greener, more sustainable future for our communities was underscored, with students pledging to actively participate in future initiatives.

# UTKARSH 2024

## ANNUAL-TECHNO CULTURAL FEST - UTKARSH 24

Utkarsh-2024 (Annual-Techno Cultural Fest of ADGIPS) was organised on 13-15th March 2024 at ADGIPS, Delhi in which following technical events with details have been carried out by IEEE-ADGIPS (technical society).

### A. Battle of Webtitans

The event aimed to foster creativity and innovation in addressing pressing global issues through web design. Participants were given the opportunity to select one theme from three provided options: Sustainable Cities, Quality Education, and Gender Equality. They were then tasked with developing the frontend framework for their chosen theme. The winning team was awarded with exciting goodies and certificates in recognition of their outstanding achievement.





### B. Coding War

The "Coding War" event took place on 14th March in the IEEE room, starting from 12 pm. It was an intellectually stimulating event that aimed to test participants' knowledge in various domains of computer science, including Data Structures and Algorithms (DSA), Operating Systems, Compiler Design, and more. The format of the event included a quiz conducted on the Kahoot platform, allowing for an engaging and interactive experience for all participants.

# UTKARSH 2024

## C. Treasure Hunt

The Treasure Hunt event in collaboration with Kritrim Dhi was held at IEEE Room & ML Lab, with an aim to blend technical prowess with adventurous spirit, the event saw teams engage in a thrilling quest for hidden treasures. Each team, comprising 1-5 members, was equipped with basic technical knowledge and tasked with decoding clues to unveil the ultimate treasure.







## D. Project Exhibition

IEEE-ADGIPS invited all the departments of ADGIPS to display their innovative projects in Technical Exhibition. Whether the students have been working on a scientific experiment, a cutting-edge technological solution, a captivating art piece, or any other project, IEEE-ADGIPS encouraged the participants to share their ideas with peers, faculties, and guests.