

Department: Mechanical Engineering & Institution's Innovation Council (IIC)

Event Title: Innovation & Entrepreneurship Outreach Program in Schools/Community

Social media link: <https://shorturl.at/yAY13>

Start date: 19/12/2023

End date: 19/12/2023

Duration of events: 300 minutes

Program Type: (tick only one)

Workshop	Leadership Talk	Motivational Speech	Field visit	If other, then specify type
		Y		

Program Theme: (Tick only one)

IPR	R&D and Innovation	Entrepreneurship	Startup	Design Thinking & Critical Thinking	Incubation & Pre-Incubation
		Y			

Mode of Session delivery: Offline

No. of Students participation (Minimum 40): 48

No. of faculty participation: 02

No. of External participation (if any): NIL

Objective of event (should be related to I/E/IPR): The objective of this programme was to cultivate an entrepreneurial mindset from a young age by encouraging creativity, critical thinking, and problem-solving abilities.

Benefits in terms of learning / skill / knowledge obtained (should be related to I/E/IPR): It fostered creativity by teaching students and community members critical problem-solving techniques. It stimulated imagination and pushed people to think creatively.

Attach following proof in doc/jpeg/pdf:

1. Poster of event



The poster features logos for GL BAJAJ (Center for Research and Facilitation, Greater Noida), INSTITUTION'S INNOVATION COUNCIL (Approved by AICTE & Affiliated to AKTU), and nirf-Innovation. The main text reads: "Innovation & Entrepreneurship Outreach Program in Schools/Community Under Atal Tinkering Labs Scheme Organized by Department of Mechanical Engineering in association with Institution's Innovation Council (IIC)". At the bottom, it lists "Mr. Akash Deep Coordinator" and "Date: 19-12-2023 | Time: 10AM onwards Venue: DPS, Sector 30, Noida".

2. 2-3 Photograph with minimum 1 photograph showing maximum participation.



3. Session plan / brochure / document /overall report of event/activity

The presentation on the Internet of Things (IoT) and machine learning (ML) given to schoolchildren was a fascinating and educational event that gave impressionable minds important knowledge about the cutting-edge technology influencing the future. The goal of the session was to demystify difficult ideas, make them understandable, and ignite early curiosity in the fields of IoT and machine learning.

The first part of the presentation explained the basic ideas behind the Internet of Things and showed how commonplace items might be linked to the network to gather and share data. The useful uses of IoT in improving efficiency and convenience were demonstrated with real-world examples, such as wearable technology and smart household appliances. The interactive method used in this section held the students' interest and provided a strong basis for the next discussions.

The session then moved into the field of machine learning, exploring the idea of computers using data patterns to learn and make wise decisions. The students' enthusiasm about the seemingly endless potential of machine learning was piqued when they were exposed to a variety of ML applications, from image identification to predictive analytics. Through engaging and approachable activities and real-world demonstrations, the students were able to understand the fundamentals of machine learning algorithms.

A key topic was the combination of IoT and ML, highlighting how these two technologies work together to drive innovation across a range of industries. Students were enthralled by case studies that demonstrated how IoT-enabled devices were using machine learning (ML) to make intelligent decisions. These studies also demonstrated how these technologies are revolutionising sectors such as healthcare, transportation, and agriculture.

Students had the opportunity to voice their questions and seek clarification on particular themes during the Q&A session that ensued. The pupils' excitement demonstrated a sincere desire to comprehend the nuances of ML and IoT.

To sum up, the IoT and ML workshop for schoolchildren was a huge success and gave them a basic grasp of these revolutionary technologies. The session's interactive and hands-on approach not only helped the children understand difficult ideas but also ignited a desire for learning and exploration, preparing them to become future innovators in the ever-evolving field of technology.