

Dr. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES

FC-26, SHASTRI PARK, NEW DELHI.

Department of Artificial Intelligence and Machine Learning

Dated: 15/09/2026

REPORT

Industrial Visit

“SSPL, Defence Research and Development Organisation (DRDO)”

Date of Event: 15th September 2026

Venue: Solid State Physics Laboratory (SSPL), DRDO, Delhi

Objectives: The objective of the industrial visit was to provide students with practical exposure to advanced research and development activities carried out in defence laboratories. The visit aimed to bridge the gap between theoretical knowledge and real-world applications of Artificial Intelligence and Machine Learning in semiconductor technology and defence systems.

Activities: Industrial Visit

Key Takeaways:

- Understanding of semiconductor production and its strategic importance.
- Exposure to single crystal growth and advanced material technologies.
- Insights into piezoelectric, acoustic, and emission sensor applications.
- Awareness of how Artificial Intelligence and Machine Learning are applied in defence research.
- Motivation towards innovation, research, and contributing to national development.
- Knowledge about the role of SSPL in strengthening India's self-reliance in semiconductor and defence technology.

Description: The Department of Artificial Intelligence and Machine Learning (AIML) of Dr. Akhilesh Das Gupta Institute of Professional Studies (ADGIPS) has organized an industrial visit on 15th September 2026 to SSPL, Defence Research and Development Organisation (DRDO) for the students of all years. The visit was organized by Prof. (Dr.) Ankit Verma, Professor and Head of Department (HoD) of Artificial Intelligence and Machine Learning (AIML). Ms. Shuchi Sharma and Ms. Shristy Goswami were the Faculty Coordinators for the industrial visit. A total of 30 students, along with the faculty coordinators, visited the industry and acquired knowledge.

The visit began with a warm welcome at SSPL, where students were addressed by Dr. Ravindra Pal, OS & Sc

‘H’ and Associate Director. He provided valuable insights into the vision, mission, and key contributions of SSPL in strengthening India’s defence sector. Students were then guided through various specialized laboratories such as the Single Crystal Generation Lab, where they learned about semiconductor crystal growth and its significance in electronic and defence applications. The visit also included exposure to research in advanced materials such as piezoelectric materials, acoustic materials, and emission sensors. Students gained knowledge about how SSPL develops high-performance semiconductors and advanced sensors used in defence technologies. They also explored the integration of Artificial Intelligence and Machine Learning in material research, predictive analysis, and smart sensor systems.

Outcomes: The 30 students, along with 3 faculty members, benefited from the industrial visit.

Beneficiaries: AIML Students

Photographs of event with title: Industrial Visit to SSPL, DRDO.

ADG Institute of Professional Studies

BBD

DEPARTMENT OF
**ARTIFICIAL INTELLIGENCE
& MACHINE LEARNING**
is Organizing

**EDUCATIONAL VISIT
TO SSPL, DRDO**

SCIENCE
TECHNOLOGY
SECURITY
A STRONGER NATION

TECHNOLOGY
FOR A SECURE INDIA

EVENT DETAILS

DATE & TIME
15TH September, 2026 &
09:00 AM Onwards

VENUE
SSPL, DRDO

EVENT
Educational Visit to SSPL, DRDO

PURPOSE
Educational exposure, research
interaction, & practical learning

#ShapingGenerations

FC-26, Shastri Park, New Delhi - 110 053

+91(11) 49905900-99

www.adgips.ac.in





Ms. Shuchi Sharma
Ms. Shristy Goswami
Event Coordinators

Prof. (Dr.) Ankit Verma
Head of Department