



ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਇੰਜੀਨੀਅਰਿੰਗ ਕਾਲਜ Guru Nanak Dev Engineering College

An Autonomous College Under UGC Act 1956

AICTE Approved, ISO : 9001-2015 Certified Affiliated to IK Gujral, PTU, Kapurthala
IEI Accredited UG Programmes, Institute Accredited by NAAC ('A' Grade) & TCS

Ref. No. PTP/2025/Gen/348

Dated 13/11/25

Certificate of Completion

This is to certify that Ms. Gaganjot Kaur (URN: 2203429) has successfully completed a TR-103 in IoT Security during June 2025. During the training, she worked hands-on with IoT devices (ESP32) and conducted practical investigations, including a time-based channel attack analysis and mitigation experiments. She also participated in the CSAW 2025 Embedded Security Challenge (ESC) and performed a man-in-the-middle capture of a ThingSpeak API key using arpspoof as part of the embedded-security exercises. Additionally, she developed a phishing-detection machine learning model that used a real-time Gmail receiver to inspect email bodies for malicious content.



Training and Placement Cell

Guru Nanak Dev Engineering College

Ludhiana