



Sri Guru Teg Bahadur Khalsa College

Sri Anandpur Sahib Punjab



Institutions Innovation Council

in collaboration with

PG Department of Physics & Computer Science Organized a Lecture on

**“Optimization of Surface Plasmon Polaritons with Thin Gold Film using
Kretschmann Configuration”**

The Institution's Innovation Council (IIC), Sri Guru Teg Bahadur Khalsa College, Sri Anandpur Sahib, in collaboration with the P.G. Department of Physics and Computer Science & Innovation Cell, successfully organized a lecture on “Optimization of Surface Plasmon Polaritons with Thin Gold Film using Kretschmann Configuration” on 20th August 2026 at the M.Sc. Physics Lab.

The lecture by Naina, Department of Physics, provided students with valuable insights into Surface Plasmon Polaritons, thin-film optics, photonics, and nanotechnology, encouraging scientific curiosity and research awareness.

The programme was coordinated by Dr. Amrit Singh, Department of Physics, and Prof. Tajinder Kaur, Department of Computer Science.

Dr. Gurpreet Kaur, IIC President, appreciated the successful organization of the programme and the efforts of the coordinators, speaker, and participating students.

Dr. Vimal Mehta, HOD, Department of Physics, appreciated the initiative and active participation of students.

Dr. Jasvir Singh, Principal, congratulated the organizers and emphasized the importance of such programmes in promoting research, innovation, and interdisciplinary learning.

Objectives: To create awareness among students about the Institution's Innovation Council (IIC) and to motivate them towards innovation, entrepreneurship, research and startup culture. Further, to introduce participants to the principles of Surface Plasmon Polaritons (SPPs) and their excitation using a thin gold film through the Kretschmann configuration. It aims to develop an understanding of SPP optimization, thin-film optics, and their potential applications in sensing, photonics, and nanotechnology.

Benefits: It will enhance participants' understanding of SPP-based photonics and thin-film technology, while providing insights into their potential applications in sensors, nanotechnology, and advanced optical devices. Further, enhanced students' awareness regarding the role and activities of IIC.

No. of Participating Students: 40

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