

Registration Open Date: 12th May, 2026
Registration Deadline: 5th June, 2026 (Limited Seats)

ADVISORY COMMITTEE



NOTE:

- Confirmation of participation will be informed by 7th June 2026 via email.

Contact us

- 9716912100 (Dr. Pradeep Sharma)
- rdc@shyamlal.du.ac.in
- <https://slc.du.ac.in/RDC-Summer-School-2026/index.php>

Chief Patron

Ms. Savita Gupta
Chairperson, SLC

Patron

Prof. Rabi Narayan Kar
Professor-Principal, SLC

Director, IQAC

Prof. Kusha Tiwari

Convenor, Summer School & RDC

Prof. Niti Agrawal

Program Coordinators

Dr. Pradeep Sharma **Dr. Sunny Aggarwal**

Organising Team

| | |
|--------------------|-----------------------|
| Dr. Kanika Solanki | Dr. Sushil Kumar |
| Dr. Padma Dechan | Dr. Pranav Dass |
| Dr. Aditi Puri | Dr. Leena Singh |
| Dr. Rahul Boadh | Dr. Neha Bothra |
| Dr. Virender | Mr. Aakash Kumar Soni |
| Dr. Vinod Kumar | Dr. Ompal Singh |
| Dr. Neelam Dabas | Dr. Rakesh Pant |

Prof. Avinash Chandra Pandey

Director IUAC, New Delhi

Prof. Rajendra Singh

Dept. of Physics, IIT Delhi

Dr Rajiv K Singh

Scientist-F, CSIR-NPL

Dr Mahesh Kumar

Senior Principal Scientist CSIR, and Professor AcSIR

Dr Ajay Kumar

Scientist-F, DRDO

Dr. Nahid Chaudhary

Technology Manager, QMD foundation, IIT Delhi

Mr. Aditya Vyas

CEO, QMD foundation, IIT Delhi



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SLC(University of Delhi)
SHYAM LAL COLLEGE
NAAC A++, NIRF 43rd

National Summer School

on

QUANTUM SCIENCE & TECHNOLOGY

Hands-on Exploration and Emerging Frontiers

16-27 June, 2026

organized by

**Research & Development Centre
and
IQAC, SLC**

in collaboration with

QMD-IIT Delhi, IUAC Delhi & CSIR-NPL Delhi



Thematic Background

Quantum science and technology is emerging as one of the most transformative areas of modern science with applications in computing, communication, sensing, metrology, materials science, healthcare, cybersecurity, and advanced instrumentation. **With the rapid global progress in quantum technologies and the launch of the National Quantum Mission by the Government of India**, there is a growing need to create awareness and develop skilled human resources in this interdisciplinary field. Understanding the fundamentals of quantum science and its technological applications can help students explore new research opportunities and prepare for future scientific and technological challenges. Recognizing the importance of this rapidly evolving domain, the Research & Development Centre and IQAC of Shyam Lal College (University of Delhi) are organizing a 2-Week National Summer School on Quantum Science and Technology: Hands-on Exploration and Emerging Frontiers, in collaboration with Indian Institute of Technology (IIT) Delhi & Inter University Accelerator Centre (IUAC) Delhi. The summer school aims to bridge the gap between classroom learning and emerging research by providing students with foundational knowledge, experimental exposure, and interaction with experts working in the field of quantum science and technology.

About SLC

SLC's inception in 1964, our institution has been a cornerstone of academic excellence, community connect and sensitive towards environment besides providing quality education to students from neighboring underprivileged communities. The College is now among the best institutions in the entire University of Delhi and takes pride in informing that we have been accredited with A++ Grade in the National Assessment and Accreditation Council (NAAC). Further, the College has been consistently ranked among the best 100 Colleges under NIRF with current year ranking of 43rd. The College, over the past several years, has been making steady progress toward achieving academic excellence. The endeavour of the College has always been to make higher education, meaningful, holistic, pragmatic and at the same time more adaptable to the ever-changing demands of our society and the world. We at SLC are pioneering towards implementation of NEP 2020.

About IQAC

The college established its Internal Quality Assurance Cell (IQAC) in 2016 to ensure quality in academic and co-curricular activities. The consistent progress of the institution, reflected in its A++ Grade (2nd NAAC cycle) and 43rd NIRF ranking, is a result of IQAC's dynamic functioning. Since inception, IQAC has collaborated with various departments and centres, to develop a holistic academic environment. The transformation in SLC's research and academic profile became evident as international and national conferences, workshops,

and FDPs became a regular feature of the academic calendar. IQAC launched the Interdisciplinary Students Project Scheme in 2018, now continued under the Research and Development Cell, to encourage student research collaboration. It also conducts annual Result Analysis and facilitates academic audits, NIRF participation, and Smart Office training for non-teaching staff. The IQAC team ensures smooth completion of institutional processes such as faculty recruitment and promotion, and actively involves students in decision-making related to quality initiatives. It also motivates centres and clubs to undertake socially and environmentally responsible projects. Overall, IQAC plays a pivotal role in driving institutional growth through continuous improvement and long-term quality planning.

About Research & Development Centre

SLC has established a Research and Development Centre (RDC) with the mandate for promoting quality research that contributes meaningfully towards the goal of a self-reliant India ("Atma-Nirbhar Bharat"), aligned with the provisions of NEP-2020. The R&D Centre aims to create a dynamic and intellectually stimulating environment that encourages critical thinking, interdisciplinary collaboration, and problem-solving through research-based learning. The Centre actively promotes faculty and student participation in research projects through its 'Shyam Lal Multidisciplinary Research Project scheme'. To strengthen the research ecosystem within the institution, the Centre also organizes workshops, expert lectures, hands-on training sessions, and collaborative academic initiatives with reputed institutions and research organizations. Special emphasis is placed on nurturing undergraduate research aptitude, scientific temper, and innovation-oriented learning. Through its initiatives, the Centre (RDC) aspires to transform young learners into responsible researchers, innovators, and future leaders capable of addressing real-world challenges at local, national, and global levels.

About The Program

The 2-Week National Summer School is designed to introduce undergraduate students to the rapidly evolving field of quantum science and its emerging technological applications. The program seeks to provide an interdisciplinary learning experience through expert lectures, interaction sessions, hands-on exposure, and visits to premier research laboratories. The program will expose participants to important areas such as quantum materials and devices, quantum metrology, quantum computing, quantum sensing, precision measurements, and advanced scientific instrumentation. Special emphasis will be given to experiential learning and interaction with scientists, researchers, and faculty members working in cutting-edge areas of research. Through laboratory visits and academic interactions, participants will gain insight into modern research infrastructure and ongoing developments in quantum technologies. The summer school also aims to encourage scientific curiosity, interdisciplinary thinking, and research orientation among young students, preparing them for future academic and technological advancements in this emerging field.

Program Highlights:

- ◆ Comprehensive introduction of Quantum science and emerging technology
- ◆ Hands-on training in fabrication & characterization of Quantum Devices.
- ◆ Exposure to Quantum Computing.
- ◆ Insight into Quantum metrology and precision measurement.
- ◆ Expert lectures and interaction with leading scientist and faculty.
- ◆ Visit to premier research facilities.

Knowledge Partner

The Summer School is strengthened by the support and collaboration of our esteemed Knowledge Partners, whose expertise and research excellence provide participants with meaningful exposure to advanced scientific concepts, state-of-the-art facilities, and emerging technologies. Through expert guidance, mentorship, and shared commitment to innovation, these esteemed institutions inspire young learners to explore new frontiers in science and research. Our valued Knowledge Partners include IIT Delhi, IUAC Delhi & CSIR-NPL Delhi.

Who can Apply: Undergraduate students from engineering and science disciplines, from different institutions across the country.

How to Apply: The applicant must fill the online application form to apply using the google form link given below:

<https://forms.gle/m17tF2K7HRhznzNFP8>

SCAN HERE TO
REGISTRATION



Registration Fee

Participants are required to pay the registration fee of ₹1100/- via NEFT/IMPS/UPI to the following account:

- ◆ Name: Shyam Lal College Conference and Seminars Account
- ◆ Bank: Central Bank of India, Shyam Lal College Shahdara, Delhi-32
- ◆ Type of Account: Savings
- ◆ Account number: 3731428412
- ◆ IFSC: CBIN0283941
- ◆ MICR: 110016147



SCAN PAY via UPI