

**Pre-Conference Workshop
On
Research Techniques in
Photonics and Materials Science
(RTPMS-2025)**

ORGANIZED BY



NAAC A++ Accredited

**Department of Physics
Chaudhary Charan Singh University,
Meerut, Uttar Pradesh, INDIA**

Date: November 12, 2025



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Prof. Sangeeta Shukla
(Hon'ble Vice Chancellor)

Co-Patron

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(Director, Academics)
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(Dean of Science)
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Dr. Vivek Kumar Nautiyal

About Workshop

Aim of the workshop on “*Research Techniques in Photonics and Materials Science*” (RTPMS-2025) is to update the young researchers about advanced research techniques being used in Photonics and Materials Science. The eminent speakers will share their knowledge and provide fundamental insights about various sophisticated research techniques used in Photonics and Materials Science. The research scholars and young faculty members will be benefited from this workshop. The topics include XRD, XPS, PPMS, Raman Spectroscopy, Ultrafast spectroscopy, and Scanning Probe Microscopy techniques.

Resource Persons

Prof. Akhilesh Kumar Singh (IIT-BHU)

Prof. Rajendra S. Dhaka (IIT Delhi)

Prof. Vivek Kumar Malik (IIT Roorkee)

Prof. Satish Dube (IIT Delhi)

Prof. S. Murugavel (University of Delhi)

Prof. Swapna Nair (CU Kerala)

Dr. Mukesh Jewariya (CSIR-NPL)

International Conference on Photonics and Emerging Materials for Futuristic Technology (PEMFT-2025)

ORGANIZED BY



NAAC A++ Accredited

**Department of Physics
Chaudhary Charan Singh University,
Meerut, Uttar Pradesh, INDIA**

Date: November 13-15, 2025



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Prof. Dino Jaroszynski, SUPA Scotland
Prof. Carmen Vega, USA
Prof. X. C. Zhang, Uni. of Rochester, USA
Prof. Ram S. Katiyar, USA
Prof. Pramod Kumar, UAE
Prof. Sejoon Li, Dongguk Uni. S. Korea
Prof. Vikas Rana, Peter Grunberg Institute Germany
Prof. Anton Gradišek, JSI, Slovenia
Prof. Sujeet Chaudhary, IIT Delhi
Prof. H. K. Malik, IIT Delhi
Prof. Rajan Jha, IIT Bhubaneswar
Prof. M. K. Gupta, CCSU Meerut
Prof. Shivaraj Singh, CCSU Meerut
Prof. Mukesh K. Sharma, CCSU Meerut
Prof. R. K. Soni, CCSU Meerut
Prof. Vijai Malik, CCSU Meerut
Prof. Hare Krishna, CCSU Meerut
Prof. Bhupendra Kumar, CCSU Meerut
Prof. S. S. Gaurav, CCSU Meerut
Prof. Bindu Sharma, CCSU Meerut
Prof. Jitendra Kumar, CCSU Meerut
Dr. Sachin Kumar, CCSU Meerut
Dr. Pardeep Chaudhary, CCSU Meerut
Dr. Saru Kumari, CCSU Meerut
Dr. Nazia Tarunnam, CCSU Meerut

About Conference

The conference theme “Photonics and Emerging Materials for Futuristic Technology” (PEMFT-2025) ties together the pressing need for sustainability with the potential of materials science to drive transformative technological solutions. It aims to explore innovative research and development that contributes to a greener, more sustainable future through cutting-edge advancements in both photonic and material design applications. Moreover, this conference serves as a pivotal forum for academicians, researchers, and industry professionals across the globe to come together and explore the most recent developments in photonics and materials science. This academic forum serves as a catalyst for the exchange of innovative ideas, research findings, and collaborative initiatives aimed at addressing contemporary challenges for sustainable technology. Participants will have the opportunity to network with leading global experts and gain insights into cutting-edge research. The conference also aims to foster partnerships focusing towards sustainable photonics and materials science.

About CCS University Meerut

Chaudhary Charan Singh University (CCSU), established in 1965, is one of the premier educational institutions of India encompassing a vast, beautiful, and pollution-free campus sprawling over 222 acres of land having vast playgrounds and experimental facilities, a botanical garden, a rose garden with life-size statues of the Bharat Ratna & former Prime Minister of India late Chaudhary Charan Singh and Swami Vivekananda, Central Instrumental Facility, Gymnasium, Indoor Stadium, well equipped Library, Hostels for both girls and boys, Administrative Block, Spacious Auditorium, Guest House, Community Centre, Medical Centre, Residential Quarters for faculty members and employees, Canteen, Bank, and Post office. The University affiliates 714 aided, government and self financial colleges/institutions, catering more than 5.25 lakh students. The motto of the University ‘*Yatra Satyasya Paramam Nidhanam*’ (Where the truth has its supreme adobe) is reflected in its vision and mission. The teaching departments are housed in spacious buildings and have well-equipped laboratories and advanced research facilities. The University also has a separate engineering college, which offers courses leading to B.Tech. degree in different branches of engineering and M.Tech. in Computer Science & IT. The University was recently awarded A++ grade (CGPA 3.66) by NAAC. The University achieved 41 rank among top 100 state universities in India as per NIRF-2025 ranking. The University achieved 222 rank in QS-2025 ranking among Southern Asian Universities. The University has been awarded “*The Best State University*” in research citation award-2023 by Clarivate (Web of Science).

Department of Physics,

Chaudhary Charan Singh University Meerut, Uttar Pradesh, INDIA

The Department of Physics, established in 1969, is a research-oriented DST-FIST funded academic unit of Chaudhary Charan Singh University Meerut. The Department offers NEP-2020 based programs in Ph.D., M.Sc. with four specializations: Electronics, Nanoscience and Nanotechnology, Optoelectronics and Advanced Solid State Physics, and B.Sc. (Honors with research) for young and dynamic minds. More than 30 students are pursuing Ph.D. in the thrust areas of material science and photonics. The Department has been awarded with three center of excellence by the Higher Education department, Government of Uttar Pradesh (India) and actively involved in research covering a wide variety of frontier areas in Materials Science and photonics such as Renewable Energy, Hydrogen storage and Gas sensors, Superconductors, Biomaterials & Bio-/Chemo-Sensors, Energy storage devices, Photocatalysis, Antimicrobial, Waste-water treatment, Photonics and Metamaterials. The Department has several ongoing projects supported by various funding agencies and has active research collaborations at National and International levels.



Meerut : Historical background

The historic city of Meerut dating back from Ramayana and with relics from Mahabharata period is located in the western part of the state Uttar Pradesh, India. Meerut is known as the gateway to Hastinapur-the quintessential site of the epic Mahabharata. Relics and remains dating back to this period prove that this region was the capital of the Kauravas and Pandavas. Meerut city is located 80 km northeast of the national capital New Delhi, and 480 km west of the state capital, Lucknow. Meerut is one of the largest manufacturers of sports goods in the country, known as the "Sports City of India". The city is also known as the largest manufacturer of musical instruments in the country, as well as one of the Asia's biggest gold markets. The city is also an education hub in western Uttar Pradesh. Meerut is famously associated with the 1857 the first freedom struggle against the Company rule in India. The famous slogan "Dilli Chalo" ("Let's march to Delhi!") was first spoken in the city, and the Meerut cantonment was the place where the rebellion started. The city is surrounded by beautiful farmland and has a very pleasant weather in March. Historic towns such as Sardhana, Haridwar, Rishikesh, Garhmukteshwar are situated within 100 Km radius from Meerut. The city has beautiful and historical places nearby. India's first Regional Rapid Transit System (RRTS) connects the National capital New Delhi to Meerut.

Conference Topics

- Quantum Photonics and Quantum Materials
- Photonics and Materials for Sensors and Imaging
- Nonlinear Optics and Ultrafast Photonics
- Nanophotonics and Metamaterials
- Optoelectronic & Luminescent Materials
- Smart Materials for Renewable Energy
- Advanced Functional Materials
- Advanced Nanomaterials for Energy Storage and Conversion
- Catalysts for Environment Remediation
- 2D Materials/Sensors
- Next-Generation Materials for Carbon Capture and Utilization
- High performance Structural Materials
- Spintronic and Multiferroic Materials
- Computational Modeling and Simulations

Mode of Presentation

Plenary/Invited/Oral/Poster

Conference Venue

Atal Sabhagar, Chaudhary Charan Singh University Meerut, Uttar Pradesh (INDIA)

Contact Details

Email: pemft2025@gmail.com

Phone: +91-8368922050 (Prof. Anil Kumar Malik)

+91-7726031844 (Dr. Neeraj Panwar)

+91-9149324785 (Dr. Yogendra K. Gautam)

Bank Details

Branch: INDIAN BANK, MEERUT UNIVERSITY CAMPUS, MEERUT, Account Name: Main SB A/c CCSU Meerut, Account No : 20195822291; IFSC Code: IDIB0000M690

Important Dates

Abstract Submission Deadline : **September 30, 2025**
(Extended)

Notification of Acceptance: **September 30, 2025**

Last date of registration: **October 15, 2025**

Full Paper Submission: **October 30, 2025**

Useful Links

Conference Webpage:

<https://pemft-2025-physics.ccsuniversity.ac.in>

Abstract submission:

<https://forms.gle/yqeGYEFrkKFhJUWf9>

Registration Fee Details

Category

Registration Fee

Scholars/Students	INR 3000/-
Faculty/Scientists	INR 5000/-
Industry	INR 10000/-
International Participants	USD 150/-
Accompanying person (India)	INR 2000/-
Accompanying person (Int'l)	USD 50/-

Note

- ✓ Registration fee includes conference kit and meals
- ✓ Accommodation charges will be borne by participants
- ✓ Fee registration payment link will be available on conference webpage