

**UGC-Malaviya Mission Teacher Training Centre
Jawaharlal Nehru University
New Delhi**

Website: <https://www.jnu.ac.in/mmttc>

**2nd Short Term Course in Physical, Chemical & Nano Sciences (ONLINE)
25th September – 8th October, 2025**

Course Coordinators:

Prof. Manish Kumar, School of Physical Sciences, JNU

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Prof. Satyendra Singh, Special Centre for Nanoscience, JNU

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List of Participants:

Sl. No	NAME	Sl. No	NAME
1	Dr. Abadh Kishor Jha	21	Dr. Neha Paras
2	Dr. Abhijeet Mishra	22	Dr. Nidhi Bhargava
3	Dr. Akansha Khandelwal	23	Dr. Nisha Pandey
4	Dr. Akshta Rajan	24	Dr. Pramod Chaitanya
5	Dr. Anjalu Ramchiary	25	Dr. Rajeeb Brahma
6	Dr. Anju Gupta	26	Dr. Raju Kumar
7	Dr. Anshu Sawhney	27	Mr. Raju Ram Meena
8	Dr. Anurag Prakash Sunda	28	Dr. Rangnath Ravi
9	Dr. Asha Dahiya	29	Dr. Rangrao Vasant Rao Suryawanshi
10	Dr. Ashwani Kumar Singh	30	Dr. Rimpay Shukla
11	Dr. Azaj Ansari	31	Dr. Ritu Jain
12	Dr. Balaji Ishwarrao Birajdar	32	Dr. Ruchika Joshi
13	Dr. Chandrakant Trimbakrao Londhe	33	Dr. Smita Korpall
14	Dr. Gyanesh Soni	34	Dr. Srinivasarao Kuna
15	Dr. Lalruatfela Renthlei	35	Dr. Surabhi Singhal
16	Dr. Maku Moronshing	36	Mr. Suresh Kumar
17	Dr. Manoj Kumar Gupta	37	Dr. Vinu T Vadakel
18	Dr. Manoj Munde	38	Dr. Vishal Baloria
19	Dr. Meenaxi Sharma	39	Dr. Rakesh Kumar Singh
20	Dr. Meenu Mohil	40	Dr. Neha Paras

Schedule

DATE	09:00 am – 10:00 am	10:00 am – 11:00 am	11:00 am – 11.30 am	11:30 am-01.00 pm	1.00 pm - 2.00 pm	2.00 pm - 3.30pm	3.30 pm – 3.45 pm	3:45 pm-5:15 pm
Thursday September 25, 2025	Registration	Interaction with Course Coordinators	<i>Tea Break</i>	Inaugural Lecture Dr. Trilok Singh <i>Next generation thin films Solar cell Technology</i>	<i>Lunch Break</i>	Prof. Arti Kashyap <i>Density functional theory in the era of machine learning</i>	<i>Tea Break</i>	Prof. S. Patnaik <i>New Ideas in Quantum Materials</i>
DATE	09.30 am - 11.00 am		11.00 am – 11.30 am	11:30 am-01.00 pm	1.00 pm - 2.00 pm	2.00 pm - 3.30pm	3.30 pm – 3.45 pm	3:45 pm-5:15 pm
Friday September 26, 2025	Dr. Kaushal Kumar <i>Luminescence Spectroscopy of Nanomaterials</i>			Dr. Prakash Kanoo <i>Structure-Property Relationships in Multifunctional Hybrid Nanoporous Materials</i>		Dr. Viswanath Balakrishnan <i>Electron Microscopy of Nanomaterials</i>		Prof. A. Khurram Hafiz <i>Enhanced Photodetection ability of WSe₂/V₂O₅ Nanocomposite on flexible substrate</i>
Saturday September 27, 2025	<i>Assignment Work</i>			<i>Assignment Work</i>		<i>Assignment Work</i>		<i>Assignment Work</i>
Monday September 29, 2025	Prof. Pawan K. Kulriya <i>Radiation-Resistant materials for Next Generation Nuclear Reactors</i>			Dr. Akhilesh Mishra <i>STI landscape: Funding opportunities for young Researchers</i>		Prof. Mahesh Kumar <i>Intelligent Gas Sensing with Metal-Oxide Sensors and Machine Learning Approach</i>		Prof. Pritam Mukhopadhyay <i>From Supramolecular chemistry to Supramolecular Materials</i>
Tuesday September 30, 2025	Prof. Kedar Singh <i>Recent Developments in low-dimensional materials</i>			Dr. Sandeep Kumar <i>Nano-Scale Electronics: Device-to-Circuit Perspectives on Design, Challenges, and Opportunities</i>		Dr. Rajat Pandey <i>Intellectual Property Rights & International funds raising for research</i>		Prof. Y K Mishra <i>Tetrapods based Smart Materials for Advanced Technologies</i>
Wednesday October 1, 2025	Prof. S K Mahapatra <i>Strategies for Boosting Super capacitor Efficiency via 2D Material Modifications with Nanocomposites</i>	11.00 am to 11.30 am MCQ		Dr. Vinod Kumar <i>Plastics and the Planet: Knowledge for a Sustainable Future</i>		Prof. Sanjay Puri <i>“Kinetics of Phase Transitions”</i>		Valedictory Programme