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21st Refresher Course in Physical Sciences & Nano Sciences (ONLINE MODE) 20th September – 5th October, 2023

Course coordinators:

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List of Resource Persons:

Sr. No.	Name of the Resource Person	Topic of lecture	Contact Details
1.	Prof. Mahesh Kumar	<i>2D materials for gas sensors</i>	IIT Jodhpur Email: mkumar@iitj.ac.in
2.	Dr Pankaj Podar	<i>The art and science of crystal growth and their applications: from last frontiers of condensed matter to the nanoscale</i>	National Chemical Laboratory Pune Email: ppoddar@gmail.com
3.	Dr Ram Janay Choudhary	<i>Tuning the electronic and magnetic properties of transition metal oxides thin films via strain engineering</i>	UGC-DAE Consortium for Scientific Research Email: ram@csr.res.in
4.	Prof. Venkata Krishnan	<i>Green Chemistry and Renewable Energy</i>	School of Basic Sciences Indian Institute of Technology Mandi- 175 075, HP-INDIA vkn@iitmandi.ac.in
5.	Prof S. Patnaik	<i>New Materials for Energy & Information Storage & Transmission</i>	School of Physical Sciences, Jawaharlal Nehru University New Delhi Email: spatnaik@jnu.ac.in
6.	Prof B.K Singh	<i>Nuclear Physics</i>	Prof. Bhartendu K Singh Director, Indian Institute of Information Technology, Design and Manufacturing, Jabalpur Email: director@iiitdmj.ac.in
7.	Prof Sanjay Puri	<i>Kinetics of Phase Transitions</i>	School of Physical Sciences, Jawaharlal Nehru University New Delhi

			Email: puriynu@gmail.com
8.	Prof Surya Kant Tripathi	<i>Exponential Condensed Matter Physics</i>	Department of Physics Panjab University Chandigarh 160014, India Email: surya@pu.ac.in
9.	Prof N.L Singh	<i>Milestones in Development of Nuclear Physics and Applications in Daily Life</i>	Department of Physics, Netaji Subhas University of Technology, New Delhi
10.	Prof. Chandana Rath	<i>Investigation on structure dependent Physical properties in Nanostructured oxide materials</i>	School of Materials Science and Technology, IIT- BHU Email: crath.mst@iitbhu.ac.in
11.	Prof. Dambarudhar Mohanta	<i>Exfoliation, structure formation and exciton dynamics in layered nanomaterials</i>	Department of Physics Tezpur University, Tezpur, Assam. Email: best@tezu.ernet.in dmohanta1973@gmail.com
12.	Prof. Vijay K. Thakur	<i>Polymer composites</i>	<u>Scotland's Rural College</u> , Barony Campus, UK Vijay.Thakur@sruc.ac.uk
13.	Dr. B. P Singh	<i>Empowering Sustainability with Modern Trends in Nuclear Energy Generation and Waste Management</i>	Department of Physics, Aligarh Muslim University (AMU). Aligarh Email: bpsinghamu@gmail.com
14.	Dr. Pratima Solanki	<i>Biosensor</i>	Special Centre for Nano Sciences, Jawaharlal Nehru University, Delhi-110067 partima@mail.jnu.ac.in
15.	Prof. Mahesh Kumar	<i>2D Materials based for gas sensors</i>	Indian Institute of Technology, Jodhpur
16.	Dr. Parasmani Rajput	<i>Applications of spectroscopic methods based on synchrotron radiation and its impact</i>	Bhabha Atomic Research Centre Trombay, Mumbai-85, India Email: parasmanim80@gmail.com
17.	Prof. Sunil Kumar	<i>Nano and Nematodes</i>	Department of Animal Sciences, Central University of Dharamshala sunilibes@hpcu.ac.in
18.	Prof. Kashayap K. Dubey	<i>Waste water treatment</i>	School of Biotechnology, Jawaharlal Nehru University, Delhi-110067, INDIA kashyapdubey@jnu.ac.in
19.	Prof. Sujeet Chaudhary	<i>“Vacuum Techniques”</i>	Indian Institute of Technology Delhi Hauz Khas, New Delhi, 110016 E-mail: sujeetc@physics.iitd.ac.in
20.	Dr. Ram Prajapati	<i>Theory, computational and simulation studies in Astrophysical plasmas</i>	School of Physical Sciences, Jawaharlal Nehru University New Delhi Email: rpprajapati@mail.jnu.ac.in

21.	Prof Sobhan Sen	<i>Utility of Fluorescence Spectroscopy and Microscopy in Everyday Life: A Primer</i>	School of Physical Sciences, Jawaharala Nehru University New Delhi Email: sobhan.sen@gmail.com
22.	Dr. Rehan Khan	<i>Nanotoxicology, Drug delivery and inflammatory diseases; A generalized view</i>	Institute of Nano Science and Technology (INST) Mohali Email: rehankhan@inst.ac.in
23.	Prof. B. C. Yadav	<i>Self-healing Nano-Materials and their Applications</i>	Department of Physics, Babasaheb Bhimrao Ambedkar University, Lucknow, U.P.
24.	Prof. Bijoy K Kuanr	<i>Microwave/RF</i>	Special Centre for Nano Sciences, Jawaharlal Nehru University, Delhi-110067 bijoykuanr@mail.jnu.ac.in
25.	Dr. Sameer Rahatekar	<i>Natural Polymers Based Functional Nano fibres for Antimi</i>	School of Aerospace, Transport & Manufacturing, Cranfield University, UK. S.S.Rahatekar@cranfield.ac.uk
26.	Prof. R.K. Gupta	<i>Nanostructured Materials for Water Remediation Applications</i>	IIT Kanpur Email: guptark@iitk.ac.in
27.	Dr. Vijay K. Goel	<i>Structure based antimalarial drug discovery</i>	School of Physical Sciences, Jawaharlal Nehru University New Delhi Email: vijaykgoel@mail.jnu.ac.in , vijaykgoel@jnu.ac.in