



UGC-Human Resource Development Centre

यूजीसी-मानव संसाधन विकास केंद्र

Jawaharlal Nehru University, New Delhi

जवाहरलाल नेहरू विश्वविद्यालय, नई दिल्ली



ज्ञान-विज्ञान विमुक्तये

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

20th Refresher Course in Physical Sciences & Nano Sciences (ONLINE MODE) 11th July – 23rd July 2022

Course coordinators:

Prof. Ram Sagar Mishra, School of Physical Sciences, JNU

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Dr. Partima Solanki, Special Centre for Nano Sciences, JNU

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List of Resource Persons:

Sr. No.	Name	Topic of lecture	Contact Details
1.	Prof. Avinash Chandra Pandey	<i>Facilitating experiments with ion beams</i>	IUAC, New Delhi, Email: avinashcpandey@rediffmail.com
2.	Prof. Ravi Prakash Singh	<i>New Endeavours in Asymmetric Vinylogous Reactions: Towards Functionally Rich Synthons</i>	IIT, Delhi Email: Ravi.P.Singh@chemistry.iitd.ac.in
3.	Prof. Vinod K Tiwari	<i>Synthetic Chemists and our Society</i>	BHU, Varanasi Email: tiwari_chem@yahoo.co.in
4.	Prof. Akhilesh K. Verma	<i>Harnessing the reactivity of Alkynes: Construction of small molecules of biological relevance</i>	BHU Email: akhilesh682000@gmail.com
5.	Prof. Mritunjay D Pandey	<i>Fluorescence Spectroscopy: Principle Theory and Application</i>	Email: mrituanjaypandey@gmail.com
6.	Prof. Amit Thakur	<i>Frontiers of pericyclic Reactions: A Molecular Orbital Approach</i>	IIT Patna Email: amitkt@iitp.ac.in
7.	Prof. Neetu Singh	<i>Engineering New Materials for Drug Delivery: A Chemist's Perspective</i>	IIT Delhi Email: sneetu@iitd.ac.in
8.	Prof. A. K. Bhagi	<i>Mixed metal oxide nanoparticle as a potential catalyst</i>	Dayal Singh College, DU Email: akbhagi@gmail.com
9.	Prof. Anil K. Mishra	<i>Chemistry of overcoming the research stress connection: A practical approach</i>	University of Lucknow Email: mishraanil101@hotmail.com
10.	Prof. Satish K Awasthi	<i>Design and Synthesis of small Molecules Nanoparticles and Its</i>	University of Delhi Email: satishpna@gmail.com

		<i>applications</i>	
11.	Prof. Ashok K Sharma	<i>The emerging role of epigenetics in human diseases and prospects for epigenetic therapy</i>	AIIMS New Delhi Email: ashoksharma1202@gmail.com
12.	Prof. Ranjana Aggarwal	<i>Communicating Science to Society: An Integrative approach</i>	Director, CSIR-NISCAIR Email: ranjanaaggarwal67@gmail.com
13.	Dr Pradeep Srivastava	<i>Nanotechnology: Small is beautiful</i>	Former Deputy Director CDRI Email: pkscdri@gmail.com
14.	Dr. Abhay Kumar Singh Professor of	<i>Study of Space weather and its effects on near Earth Environment</i>	Physics Atmospheric Research Lab., Department of Physics, Banaras Hindu University, Varanasi-221005 (U.P.), India.
15.	Dr Amit Kumar	<i>Crafting Designer Nanoreactors for Bioorthogonal Catalysis</i>	POSTECH Korea Email: amitkumar@postech.ac.kr
16.	Prof. Sanjay Kr Sharma	<i>Science Technology Continuum</i>	IIT BHU Email: sksharma.min@iitbhu.ac.in
17.	Prof. Manish K. Kashyap	<i>Density Functional Theory Approach: A Powerful Tool for Material Modeling</i>	SPS, JNU Email: manishdft@gmail.com
18.	Prof. Kaushik Pal	<i>New Insights into Nanocomposite Materials: Advancement and Applications</i>	IIT , Roorkee, Roorkee Email: kaushik@me.iitr.ac.in
19.	Dr. Govind Gupta	<i>Semiconductor Heterostructure based Detectors for Optical Communication</i>	NPL, New Delhi Email: govindnpl@gmail.com
20.	Dr. P.C. Mondal	<i>Nanofabrication of molecular electronics devices</i>	IIT, Kanpur Email: pcmondal@iitk.ac.in
21.	Prof. Absar Ahmad	<i>Biological synthesis of isotopic and anisotropic nanoparticles and their varied applications</i>	AMU, Aligarh aahmad786in@gmail.com
22.	Prof. Bijoy Kumar Kunar	<i>Design, Fabrication and testing of Devices using magnetic Nano-structures</i>	SCNS, JNU Email: bkkuanr@gmail.com
23.	Dr. Sobhan Sen	<i>Utility of Molecular Spectroscopy in Everyday Life</i>	SPS, JNU, New Delhi Email: sobhan.sen@gmail.com
24.	Dr. Anil Kumar	<i>Towards improving and enhancing cancer immunotherapy through nanotechnology</i>	NII, New Delhi Email: anilk@nii.ac.in
25.	Dr. Sumit Kumar	<i>Exosome: A Journey from Garbage Bags to Life-Saving Case</i>	UNIST, Korea Email: sumitwithchem@gmail.com

26.	Dr. Inderjeet Rao	<i>Hybrid nanomaterials for externally activated biomedical applications</i>	Delhi University Email:indrajitroy11@gmail.com
27.	Dr. Neeraj Dwivedi	<i>Ultrathin surface Protectors for next generation Technologies</i>	AMPRI, Bhopal Email:neerajdwivedi6@gmail.com
28.	Prof. Chander Shaker	<i>New Design of digital holographic interferometric microscope for imaging of biological cells and bacteria</i>	IIT. Delhi Email:cshaker@sense.iitd.ac.in cshakher1949@gmail.com
29.	Dr. Raju Khan	<i>Emerging and Futuristic Nanomaterials for Biosensing Applications</i>	AMPRI, Bhopal Email khan.raju@gmail.com
30.	Dr. Balaji Birajdar	<i>Transmission Electron Microscopy for characterization of material</i>	SCNS, JNU Email: balaji.birajdar@gmail.com
31.	Dr. Nanda Gunawardhana Title:	<i>Metal oxide gas sensors for Chemical gas detection</i>	Director, Research and International Affairs, SLT Campus, Sri Lanka E-mail: nandag@sltc.ac.lk
32.	Prof. Eremin Sergei	<i>Fluorescence Polarization ImmunoAssay (FPIA) for detection of food contaminants</i>	Moscow State University, Moscow, Russia Email: eremin_sergei@hotmail.com
33.	Dr. Abhay Kumar Singh	<i>Study of Space weather and its effects on near Earth Environment</i>	Professor of Physics Atmospheric Research Lab., Department of Physics, Banaras Hindu University, Varanasi-221005 (U.P.), India. Email: abhay_s@rediffmail.com, singhak@bhu.ac.in