



UGC-Human Resource Development Centre

यूजीसी-मानव संसाधन विकास केंद्र

Jawaharlal Nehru University, New Delhi

जवाहरलाल नेहरू विश्वविद्यालय, नई दिल्ली



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

19th Refresher Course in Physical Sciences and Nano Sciences (ONLINE MODE)

10th January – 22nd January 2022

Course Coordinators:

Prof. Manish Kumar, School of Physical Sciences, JNU

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Dr. Pratima Solanki, Special Centre for Nano Science, JNU

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List of Resource Persons

Sr. No.	Name	Topic of lecture	Contact Details
1	Prof. Yogendra K. Mishra	<i>Tetrapods based Smart Materials for Advanced Technologies</i>	Mads Clausen Institute, NanoSYD, University of Southern Denmark (SDU), Denmark mishra@mci.sdu.dk
2	Dr. G. S. Vaitheeswaran	<i>Energetic Materials: Known to unknown</i>	University of Hyderabad, Hyderabad gvaithee@gmail.com
3	Dr. Gagan Kumar,	<i>Frontier in Terahertz Plasmonics</i>	Department of Physics, IIT, Guwahati gk@iitg.ernet.in
4	Prof. B. L. Ahuja	<i>Inelastic scattering to probe electronic and magnetic properties of materials</i>	Department of Physics, M.L.S. University, Udaipur blahuja@gmail.com
5	Prof. Sourin Das	<i>“Surprising world of Quantum Mechanics”</i>	Dept of Physical Sciences, IISER, Kolkata Email: sourin@iiserkol.ac.in
6	Prof. Satyabrata Patnaik	<i>New materials for Energy storage and Transmission</i>	SPS, JNU spatnaik@jnu.ac.in
7	Dr. Pawan K. Kulriya	<i>Development of radiation tolerant ceramics for nuclear energy applications</i>	SPS, JNU pawaniuac@gmail.com
8	Dr. Anurag Gaur	<i>Development of Hybrid Supercapacitors for Energy Storage Applications</i>	J.C. Bose University of Sci & tech (YMCA), Faridabad anuragdph@jcboseust.ac.in
9	Dr. Vijay Goel	<i>Structure-Based Rational Drug Design</i>	SPS, JNU vkgoel14@gmail.com
10	Prof. Avinash C. Pandey	<i>Nuclear Shell Model and IUAC facilities</i>	Inter-University Accelerator Centre, New Delhi

			dr.avinashcpandey@gmail.com
11	Prof. Sanjay Puri	<i>Kinetics of Phase Transition</i>	SPS, JNU purijnu@gmail.com
12	Prof. Kedar Singh	<i>Diluted Magnetic Semiconducting Quantum dots: Synthesis, Investigation and Applications</i>	SPS, JNU kedar@mail.jnu.ac.in
13	Dr. Ram Prasad Prajapati	<i>Fusion Energy and Plasma Physics</i>	SPS, JNU rpprajapati@mail.jnu.ac.in
14	Dr. Anil Kumar	<i>Intellectual property rights and their relevance to science and society</i>	National Institute of Immunology, New Delhi anilk@nii.ac.in
15	Prof. P. K. Ahluwalia	<i>Predictive Simulations: A Game Changer in Understanding Nature</i>	Department of Physics, H. P. University, Shimla pk_ahluwalia7@yahoo.com
16	Prof. Sunita Srivastava	<i>Topological properties of ABX Bismide compounds</i>	Central University of Haryana, Mahendragarh sunita@pu.ac.in
17	Prof. Ram Sagar	<i>A versatile carbohydrate based gelator for the oil water separation, nanoparticles synthesis and dye removal</i>	SPS, JNU ramsagar1.jnu@gmail.com
18	Prof. P.K. Bhatnagar	<i>Organic Electronics with special reference to Organic Light Emitting Diodes (OLEDs)</i>	Delhi University pramodkbhatnagar@gmail.com
19	Dr. Satyabrata Mohapatra	<i>“Ion beam engineering of multifunctional hybrid nanostructures and plasmonic nanocomposites”</i>	Guru Gobind Singh Indraprastha University smiuac@gmail.com
20	Prof. Anchal Srivastava	<i>A journey from eye to electron microscope</i>	Department of Physics, Institute of Science, BHU, Varansi anchalbhu@gmail.com anchal@bhu.ac.in
21	Dr. Bipin Gupta	<i>Nanotechnology and Importance of 2D materials</i>	National Physical Laboratory, New Delhi guptabgupta@nplindia.org
22	Dr. Sobhan Sen	<i>Molecular Spectroscopy and its utility in Everyday Life: A Primer</i>	SPS, JNU sens@mail.jnu.ac.in

23	Dr. Zeenat Iqbal	<i>Design thinking based nanomedicine research: opening new vistas</i>	Jamia Hamdard University, New Delhi zeenatiqbal@jamiahamdard.ac.in
24	Prof. Chandra Shakher	<i>Digital Holographic Interferometric Microscope for Imaging of Biological Cells and Bacteria</i>	IIT Delhi cshakher@sense.iitd.ac.in
25	Dr. P.V. Mohanan	<i>Toxicity of Bulk and Nanoparticles</i>	Sree Chitra Tirunal Institute for Medical Sciences and Technology, Kerala mohanpv10@gmail.com
26	Dr. Sasank Daka	<i>Nanomaterials and their use in Electrochemical water splitting- Hydrogen/ oxygen evolution</i>	Delhi University ssdeka@gmail.com
27	Dr. Santi swarup Singha	<i>Tentatively: Nanoparticles for modulating immune responses</i>	National Institute of Immunology, New Delhi santiswarup@nii.ac.in
28	Prof. Bijoy K. Kunar	<i>Magnetic Nnaostructure and Nano-devices</i>	SCNS, JNU bkkuanr@gmail.com
29	Prof. Naresh Padha	<i>Materials Engineering for photovoltaic and optoelectronic device applications</i>	University of Jammu, Jammu & Kashmir, nareshpadha@gmail.com
30	Prof. S.S. Islam	<i>2D Materials and their Potential Application as healthcare Devices</i>	Centre for Nanoscience and Nanotechnology, Jamia Millia Islamia Email: sislam@jmi.ac.in
31	Dr. Chetna Dhand	<i>Nanotechnology enabled antimicrobial solutions for Infection control and Management Email: Confirmed</i>	CSIR-AMPRI, Bhopal chetnachem24@gmail.com
32	Prof. Ravindra Pandey	<i>Computational modeling of materials at nanoscale</i>	Michigan Technological University Houghton, Michigan, United Sates pandey@mtu.edu
33	Dr. R.Satheesh Thampi	<i>"Mass Spectrometry and its application to Space Science"</i>	Scientist/Engineer SG & Division Head - Planetary Science Branch (PSB) & Principal Investigator (PI),PAPA-Aditya-L1 & VISWAS-Venus Missions, Space Physics Laboratory (SPL) Vikram Sarabhai Space Centre (VSSC), ISRO, Thiruvananthapuram-22, Kerala, INDIA Email: rsatheeshthampi@gmail.com