

UGC-HUMAN RESOURCE DEVELOPMENT CENTER

GURU NANAK DEV UNIVERSITY, AMRITSAR

Refresher Course in Basic Sciences [Physical, Chemical, Mathematical, Life Science and Sports]
(September 22 to October 5, 2020)

Resource Persons and Lecture Titles

S. No.	Name, Designation & Affiliation of the Resource Person	Date of the Talk	Title of the Talk
1.	Prof Arvind, IISER	22/09/2020 (12:00- 1:30 PM)	Quantum Physics Leads to Quantum Information Processing: A New Paradigm Emerges at the Turn of the Century
2.	Prof. Rup Lal NASI Senior Scientist Platinum Jubilee Fellow The Energy and Resource Institute, New Delhi	22/09/2020 (2:30- 4:00 PM)	Epidemiology, Detection, Treatment, Transmission and Comparative genomics of SARS-CoV-2 and Managing Personal and Professional Life During COVID-19 Pandemic and Lockdown
3.	Prof Udai Maitra IISC, Bengaluru	23/09/2020 (10:00- 11:30 AM)	Kinetic Isotope Effect and Organic Reaction Mechanism
4.	Dr. S.S. Kanwar Prof. Department of Biotechnology Dean, Faculty of Life Sciences, HPU, Shimla	23/09/2020 (12:00- 01:30 PM)	Coronavirus: Overview, Pathogenesis and Prevention
5.	Dr. Lovleen Grover, Department of Mathematics, GNDU Amritsar GNDU	23/09/2020 (2:30- 4:00 PM)	AN INTRODUCTORY NOTE ON SAMPLING
6.	Prof Neera Raghav Kurukshetra University	24/09/2020 (10:00- 11:30 AM)	Medicines: In You and Your Kitchen
7.	Prof. Bhisma Kumar Patel, IIT Guwahati	24/09/2020 (12:00- 1:30 PM)	Emerging Facets of Nitrogen Centered Radicals
8.	Prof. Pawan Kumar Sharma	25/09/2020 (10:00- 11:30 AM)	Science of HIV Infection
9.	Dr. Arvinder Singh Department of Physics Professor, NIT Jalandhar	25/09/2020 (12:00- 1:30 PM)	Plasma- The Future Source of Energy
10.	Dr. Pooja Rani CSIO, Chandigarh	25/09/2020 (2:30- 4:00 PM)	Fluorescent Materials and Devices for Water Pollutants Monitoring
11.	Prof H.N. Ghosh INST	26/09/2020 (10:00- 11:30 AM)	Ultrafast Bi-Exciton, Trion and Polaron Dynamics in 2D and 3D Nano-Structured Hetero Interface
12.	Dr Prayas, AIIMS	26/09/2020 (12:00- 1:30 PM)	COVID-19:Scientific and Medical Facts
13.	Dr Isha Dhiman, Thapar University	26/09/2020	

		(2:30- 4:00 PM)	Mathematical Modeling
14.	Prof Amitava Patra, Director, INST	28/09/2020 (10:00- 11:30 AM)	Light Harvesting in Nanoscale Systems
15.	Prof Pawan Kumar Sharma, KUK	28/09/2020 (12:00- 1:30 PM)	Basics of NMR Spectroscopy
16.	Dr. V.P. Uniyal Scientist- G. Wild Life Institute of India Dehradun	28/09/2020 (12:00- 1:30 PM)	Bioindicators for Biodiversity Monitoring and Ecosystem Health
17.	Prof M. Sankar IIT Roorkee	29/09/2020 (10:00- 11:30 AM)	Synthesis of Functionalized Porphyrinoids and Their Application in Solar Cell, Anion Sensing, Nonlinear Optics and Catalysis
18.	Dr. Rahul Saxena Chief Scientific Officer, JDM Scientific Research Limited	29/09/2020 (2:30- 4:00 PM)	Pharmaceuticals- Indian Perspective.
19.	Prof. C.V. Yelamaggad Center for Nano and Soft Matter Sciences, Bengaluru	30/09/2020 (12:00- 1:30 PM)	Liquid Crystals: Life, Science and Technology
20.	Dr Lovleen Grover, Department of Mathematics, GNDU Amritsar GNDU	30/09/2020 (2:30- 4:00 PM)	A Note on Basics of Probability
21.	Dr Vinay Kumar, Department of Physics, Central University, Jammu	31/09/2020 (10:00- 11:30 AM)	Latent fingerprint detection using inorganic oxide- based nanophosphor : A forensic Application
22.	Dr Ambesh Dixit, IIT Jodhpur	31/09/2020 (12:00- 1:30 PM)	Iron oxide nanoparticles: Some interesting physical properties and probable biomedical applications
23.	Dr Anuj Tiwari, SGRD, Amritsar	03/10/2020 (10:00- 11:30 AM)	Preventive Cardiology
24.	Dr. Indu Sharma Assistant Prof. Department of Zoology, Panjab University, Chandigarh	02/10/2020 (12:00- 1:30 PM)	Endocrine Disrupting Chemicals (EDCs)
25.	Dr. Subodh Kumar Department of Chemistry, GNDU, Amritsar	02/10/2020 (2:30- 4:00 PM)	Discussion on National Education Policy
26.	Prof. I.P. Singh NIPER	03/10/2020 (10:00- 11:30 AM)	TLC and HPTLC in Natural Product Research
27.	Prof Neera Raghav Kurukshetra University, Kurukshetra	03/10/2020 (12:00- 1:30 PM)	The Mirror World
28.	Prof. Dr. K. Muthuchelian Pro Vice Chancellor, Dayananda Sagar University, Bangalore	03/10/2020 (2:30- 4:00 PM)	Intellectual Property Rights
29.	Prof Manoj Kumar, Department of Chemistry, GNDU, Amritsar	05/10/2020 (10:00- 11:30 AM)	Journey of Organic Chemistry
30.	Dr. Saroj Arora Prof. Department Botanical &	05/10/2020 (12:00- 1:30	Wetlands of Punjab

	Environmental Sciences Guru Nanak Dev University, Amritsar	PM)	
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Date & Day	Session I 10.00 to 11.30 am	Session II 12.00 to 1.30 pm	Session IV 2.30 to 4.00 pm
22.09.2020 Tuesday	Inaguration	Prof Arvind, IISER arvind@iisermohali.ac.in	Prof Rup Lal The Energy and Research Institute, New Delhi (Fixed) ruplal@gmail.com
23.09.2020 Wednesday	Prof Udai Maitra IISC, Bengaluru (Fixed) maitra@iisc.ac.in	Dr. S.S. Kanwar Dean Faculty of Life Sciences, HPU, Shimla Kanwarss2000@yahoo.com	Dr Lovleen Grover, Department of Mathematics, GNDU Amritsar GNDU (Fixed) lovleen_2@yahoo.co.in
24.09.2020 Thursday	Prof Neera Raghav Kurukshetra University (fixed) nraghav.chem@gmail.com	Prof Bhisma Kumar Patel, IIT Guwahati (Fixed) patel@iitg.ac.in	Dr. Pooja Chadha Deptt of Zoology, Guru Nanak Dev University, Amritsar
25.09.2020 Friday	Prof Pawan Kumar Sharma talk2pawan@gmail.com	Prof Arvinder Singh NIT, Jalandhar arvinders@nitj.ac.in	Dr Pooja Rani CSIO, Chandigarh (fixed) poojaiitr@csio.res.in
26.09.2020 Saturday	Prof H.N. Ghosh INST(fixed) hngosh@inst.ac.in	Dr Prayas, AIIMS(fixed) sethiprayas@gmail.com	Dr Isha Dhiman, Thapar University. (Fixed) isha@thapar.edu
27.09.2020 Sunday		SUNDAY	
28.09.2020 Monday	Prof Amitava Patra, Director, INST (fixed) director@inst.ac.in	Prof Pawan Kumar Sharma, KUK (Fixed) talk2pawan@gmail.com	Dr. V.P. Uniyal Wild Life Institute, Dehradun uniyalvp@gmail.com uniyalvp@wii.gov.in
29.09.2020 Tuesday	Prof M. Sankar IIT Roorkee (Fixed) msankariitm@gmail.com	Participant Presentation	Dr Rahul Saxena(Industry) rahuls@jdmresearch.com
30.09.2020	Participant Presentation	Prof. C.V. Yelamaggad	Dr Lovleen Grover,

Wednesday		Center for Nano and Soft Matter Sciences, Bengaluru (Fixed) yelamaggad@cens.res.in	Department of Mathematics, GNDU Amritsar GNDU (Fixed) lovleen_2@yahoo.co.in
1.10.2020 Thursday	Dr Vinay Kumar, Department of Physics, Central University, Jammu (Fixed) vinaykdhiman@cuammu.ac.in	Dr Ambesh Dixit, IIT Jodhpur ambesh@iitj.ac.in	Participant Presentation
2.10.2020 Friday	Dr Anuj Tiwari, SGRD, Amritsar 8288979742 (fixed)	Dr. Indu Sharma, Deptt of Zoology, Panjab University, Chandigarh indu2702@pu.ac.in	Dr. Subodh Kumar Department of Chemistry, GNDU, Amritsar
3.10.2020 Saturday	Prof. I.P. Singh NIPER(fixed) ipsingh@nipr.ac.in	Prof Neera Raghav Kurukshetra University (fixed) nraghav.chem@gmail.com	Prof. Dr. K. Muthuchelian Pro Vice Chancellor, Dayananda Sagar University, Bangalore drmuthuchelian@gmail.com
4.10.2020 Sunday		SUNDAY	
5.10.2020 Monday	Prof Manoj Kumar, Department of Chemistry, GNDU, Amritsar mksharmaa@yahoo.co.in	Dr.Saroj Arora, Deptt of Botanical and Environmental Sciences, GNDU sarojarora.gndu@gmail.com	Valedictory