UGC-Malaviya Mission Teacher Training Centre Himachal Pradesh University, Shimla-5

2-Week Refresher Course on Physical, Chemical & Material Sciences (RC-351)

w.e.f.- 18.11.2024 to 30.11.2024

Programme Team: Prof. D. R. Thakur, Director

Dr. Sandeep Chauhan, Course Coordinator Dr. Ashwani Kumar, Assistant Director

Timing of Technical Sessions:

Warming-up Session: (i) 9.45 a.m. to 10.00 a.m. (Yoga & Meditation)

(ii) 10.00 a.m. to 10.30 a.m. (Reflection of previous day)

I 10.30 a.m. to 12:00 noon II 12.00 noon to 01.30 p.m. III 02.00 p.m. to 03.30 p.m. IV 03.30 p.m. to 05.00 p.m.

Date & Day	Session	Topic	Resource Person
Duce et Buy	Bession	10010	Chief Guest: Prof. Mahavir Singh,
18.11.2024 (Monday)	I	Inauguration Session	Department of Physics, HPU Shimla
	II	Overview of the Refresher Course	Prof. D.R. Thakur, Director, UGC-HRDC, H.P. University Shimla
	III	Setting the Tone of the Course	
	IV	Breaking the Ice & Formation of Committee	Dr. Ashwani Kumar, Assistant Director, UGC-MMTTC, H.P. University, Shimla
19.11.2024 (Tuesday)	I	Functionalized Nanomaterials for wastewater treatment	Prof. G.R. Chaudhary, Department of Chemistry, PU Chandigarh Email: grc22@pu.ac.in
	II	Recent trends in Narcotics and psychotropic drugs	Dr. Kapil Sharma, Assistant Director, State State Forensic Lab Junga Email ID: sharmakapil78@gmail.com
	III	Materials of 21 st Century: Characterization and Applications study	Prof. Harish Kumar, Chairman Department of Chemistry, CU of Haryana, Mahendergarh Email ID: harishkumar@cuh.ac.in
	IV	Guidelines for individual Presentation / Sharing of Committee Decisions/Discussion and Instructions on committee	Dr. Ashwani Kumar, Assistant Director, UGC-MMTTC, H.P. University, Shimla
20.11.2024 (Wednesday)	I	Quantum Dots	Prof. PK Ahluwalia, Retd. Professor, Department of Physics, HP University Email ID: pk_ahluwalia7@yahoo.com
	II	Magnetism	Prof. Raman Sharma, Department of Physics, HPU Shimla Email ID: bramans70@yahoo.co.in
	III	Plastic Waste Management	Prof. Venkat Krishnan, Department of Chemistry, IIT Mandi, Email ID: vkn@iitmandi.ac.in
	IV	Distribution of Topics of Individual Presentations	Dr. Sandeep Chauhan, Course Coordinator
21.11.2024 (Thursday)	I	Scientific Mystry of the Century: The AntarcticaOzone Hole	Prof. Pawan Kumar Sharma, Department of Chemistry, CU Haryana Email ID: talk2pawan@gmail.com
	II	Innovative Skills in Teaching and Learning	Prof. Sudhir Syal, Deptt. of Biotechnology & Bioinformatics, JUIT Waknaghat Email ID: sudhir.syal@juitsolan.in
	III	Environmental Issues	Prof. D.R.Thakur, Director, UGC-MMTTC
	IV	Individual Presentations	Prof. G.S. Chauhan, Retired Professor, Department of Chemistry, HPU Shimla Email ID: ghanshyam_in2000@yahoo.com

-		Discould the state of	D CD PD P
		Photocatalytic H ₂ production, nitro-	Prof. Bonamali Pal, Department of
		organic reduction, and toxic pollutant	Chemistry & Biochemistry, Thapar Institute
	I	degradation by different	of Engineering & Technology (Deemed to be
		nanocatalysts under visible/solar	university), Patiala, Punjab
		irradiation	Email ID: bpal@thapar.edu
		Nanomaterials for wastewater	Saif Ali Chaudhary, Department of
22.11.2024	II		Chemistry, Jamia Millia Islamia University
(Friday)		treatment	Email: schaudhry@jmi.ac.in
		Development of Boron	Dr. Akshay Sharma, Associate Professor,
	III	Basednanomaterials for Boron	Department of Physics, SPU Mandi, HP
	111	Neutron Capture Therapy	Email ID: akshaykumar@spumandi.ac.in
		Treation Captare Therapy	Prof. D.K. Sharma, Retired Professor,
	IV	Individual Presentations	Department of Chemistry, HPU Shimla
			Email ID: dksharma_dk@rediffmail.com
	I	Spinel Ferrites and their applications	Prof. Pankaj Sharma, NITTTR Chandigarh
		T T T T T T T T T T T T T T T T T T T	Email ID: pankaj@nitttrchd.ac.in
			Prof. Atul Khanna, Dept. of Physics, GNDU
	II	Energy storage devices	Amritsar
			Email ID: atul.phy@gndu.ac.in
			Prof. (Dr.) A. Sakthivel, FRSC, FICS
23.11.2024			Dean, School of Physical Sciences
(Saturday)		Framework and Non framework	Department of Chemistry, Central University
•	III	materials as futuristic promising	of Kerala, Kasaragod, Tejaswini Hills Periya
		catalysts	Kerala
			Email ID: sakthivelcuk@cukerala.ac.in
			Bindir 13. Sukun veledik C edikerara.de.in
			Dr. Arpita Negi, Dept. of Yoga, HPU
	IV	Yoga for Stress Management	
	I	Science of nanomaterials; opportunity and challenges	Prof. M.S Chauhan (Retd.) Department of
			Chemistry, HP University
			Email ID:
	II	Novel nano structured materials and their applications	Prof. Ashok Sharma Department of
			Chemistry, DCRUST Murrthal, Haryana
			Email ID:draksharma.chem@dcrust.org
25.11.2024	III	Nanomaterials	Prof. Mahavir Singh, Department of Physics,
(Monday)			HP University
			Email ID: mahavirhpu@gmail.com
	IV	Individual Presentations	Dr. Jasvir Singh Kanwar
			Associate Professor, Department of
	- '		Chemistry, HP University
			Email ID: kanwar_js@yahoo.com
	Ι	Emerging solvents for energy storage devices	Dr. Ramesh Thakur Department of
			Chemistry, HP University
			Email ID: drthakurchem@gmail.com
		Phytochemical Investigation of	Dr. Upender Sharma, Principal Scientist,
		Phytochemical Investigation of	Chemical Technology Division IHRT
26 11 2024	II	Phytochemical Investigation of Himalayan medicinal Plants	Chemical Technology Division, IHBT
26.11.2024 (Tuesday)	II	Phytochemical Investigation of Himalayan medicinal Plants	Palampur
26.11.2024 (Tuesday)	II	_	Palampur Email ID: upendra@ihbt.res.in
		Himalayan medicinal Plants	Palampur Email ID: upendra@ihbt.res.in Dr. Sunil Kumar, Associate Professor,
	III	_	Palampur Email ID: upendra@ihbt.res.in Dr. Sunil Kumar, Associate Professor, Department of Chemistry, HPU Shimla
		Himalayan medicinal Plants	Palampur Email ID: upendra@ihbt.res.in Dr. Sunil Kumar, Associate Professor, Department of Chemistry, HPU Shimla Email ID:sunil.667788@gmail.com
	III	Himalayan medicinal Plants Individual Presentations	Palampur Email ID: upendra@ihbt.res.in Dr. Sunil Kumar, Associate Professor, Department of Chemistry, HPU Shimla Email ID:sunil.667788@gmail.com Dr. Kiran Kumar, Associate Professor,
		Himalayan medicinal Plants	Palampur Email ID: upendra@ihbt.res.in Dr. Sunil Kumar, Associate Professor, Department of Chemistry, HPU Shimla Email ID:sunil.667788@gmail.com
	III	Himalayan medicinal Plants Individual Presentations	Palampur Email ID: upendra@ihbt.res.in Dr. Sunil Kumar, Associate Professor, Department of Chemistry, HPU Shimla Email ID:sunil.667788@gmail.com Dr. Kiran Kumar, Associate Professor,

(Wednesday)		multifunctional applications.	University
•			Email ID: nsn_phy_hpu@yahoo.com,
			nainjeet12@gmail.com
			Prof. Suvarcha Chauhan (Retd.)
	II	Pranayaam: A Scientific Approach	Department of Chemistry, HPU Shimla
		Traina, amin. 11 Seronanie 1 approach	Email ID:scschauhan19@gmail.com
			Dr. Yogesh Kumar
	III	Individual Presentations	Associate Professor in Chemistry
			GC Solan
		Individual Presentations	Dr. Nisha Sharma, Associate Professor,
	IV		Department of Chemistry, HPU Shimla
	_ ,		Nishasharma581@gmail.com
			Prof. Vipan Kumar, Department of
	I	The Alchemical Voyage: Drug molecules' Journey from lab to clinic	Chemistry, GNDU Amritsar
			Email ID:chvipanorg@gmail.com
		Development of Pilot Scale	Dr. Lakhveer Singh, Chairman, Department
28.11.2024	II	Bioelectrochemical Reactor for green	of Chemistry, SPU Mandi, HP
(Thursday)		E-fuel production	Email ID: lakhveer@spumandi.ac.in
	III	Lignocellulosic biomass derived	Dr. Sandeep Chauhan, Course Coordinator
		adsorbents for wastewater treatment	_
	IV	Emerging Materials of Energy	Prof. Devender Singh Chairman Dept. of
		Resources	Chemistry, MDU Rohtak
	I	Dielectrics	Prof. Vineet Kumar, Deptt. of Biotechnology
			& Bioinformatics, JUIT Waknaghat
			Email ID: vineet.sharma@juitsolan.in
	II	Importance of Physicochemical	Dr. Poonam Sharma, Deptt. of
			Biotechnology & Bioinformatics, JUIT
		studies in drug formulations	Waknaghat
29.11.2024			Email ID: poonam.sharma@juitsolan.in
(Friday)	III	Overview of DRDO & Research Funding Opportunities for Academia	Dr. Gaurav Mittal, Member Secretary, Life
			Science Research Board (LSRB)
			DRDO, Civil Lines Delhi
			EMail: Isrb.hqr@gov.in
			Gauravmittal23@gmail.com Dr. Sandeep Chauhan, Course Coordinator
	IV	Hidden Talent	Dr. Sandeep Chaunan, Course Coordinator
30.11.2024 (Saturday)	I	Discussion on MCQ Test	Dr. Ashwani Kumar, Assistant Director
			Dr. Sandeep Chauhan, Course Coordinator
	II	MCQ Test/ Multi Evaluation	Dr. Ashwani Kumar, Assistant Director
			Dr. Sandeep Chauhan, Course Coordinator
	III & IV	Valedictory Ceremony	Chief Guest: Prof. Nagesh Thakur,
			Department of Physics, HP University
			Email ID: ntb668@yahoo.co.in