Profile

Name	Dr. Sansar Chand
Designation	Assistant Professor in Physics
Contact Details	Mob. No. 7840897747
	Email : <u>sansarchand44@gmail.com</u> ,
	sansar.sagar0001@gmail.com
Academic	M.Sc., PhD Physics (NITJ/IUAC New Delhi)
Qualifications	M.Sc. Physics (Specialization Nanophysics)
	from Central University of Punjab, Bathinda.
	PhD Physics (Radiation Physics) from Dr. B R
	Ambedkar National Institute of Technology
	Jalandhar (NITJ/IUAC (Inter University
	Accelerator Centre) New Delhi)
	CSIR NET, GATE 2017, GATE 2020, GATE 2021,
	GATE 2022, IAPT Examination (Graduate
	Level), HPSET Physics, CUCET
Teaching Experience	Working as Assistant Professor in College
	Cadre w.e.f. July 15, 2023
Induction/Orientation/	Attended Faculty Development on
Refresher Courses	"Control Techniques for Renewal Energy
	System (CTRES 2024)" during 8-12 th July
	2024 by Netaji Subhash University of
	Technology, New Delhi.
	 Attended national workshop on Material

	Design and Processing and presented a
	paper on "Studies of Ca ₁₀ K(PO4)7: Dy
	phosphor for applications in radiation
	dosimetry using energetic ion beams and
	ionizing radiations" held on May 8-10 at
	JNU New Delhi (2023).
•	Oral presentation on
	"Thermoluminescence properties of
	NaCaPO ₄ :Dy phosphor for radiation
	dosimetric applications" held during April
	27-29 at IUAC-SSR workshop on Recent
	Advances in Biological Effects of ionizing
	radiation and its implications in Health
	and Medicine (2023).
•	Oral presentation on
	"Thermoluminescence studies of
	"NaCaPO ₄ :Dy phosphor for Dosimetric
	Applications" at in SSNTD-2022 organized
	by NIT Kurukshetra (2022)
•	Presented a poster at the International
	Symposium on Semiconductor Materials
	and Devices organised by Dept. of Physics
	NITJ, Semiconductor Society of India (SSI)
	and Society for Semiconductor Devices
	, (SSD) from October 31 st - 2 nd November
	(2020).
•	Poster presentation on "Some Recent
	Advances of Phosphate Materials for
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Thermoluminescent Dosimetric
Applications" at International Conference
on Advances in Physical, Chemical and
Mathematical Sciences (ICAPCM-2020)
held during February 13-16 organized by
RTMNU Nagpur (2020)
 Poster Presentation on "Recent
Developments in Phosphate Materials for
Thermoluminescent Dosimetry" at
National Symposium on SSNTDs and
Their Applications held during October
18-20 at Khalsa College Amritsar, Punjab,
India (2019)
 PhD teaching programme on " Ion
sources" held from August 16-September
15, at IUAC New Delhi (2018).
 PhD teaching programme on "Vacuum
Techniques" held from October 2018-
November 2018 at IUAC New Delhi.
 PhD Teaching Programme on "Ion beam
Induced Modifications in Solids" February
17 -March 16 at IUAC New Delhi, (2019).
 Short Term Course on "Material
Characterization Techniques" held during
June 17-21, at Dr. B R Ambedkar National
Institute of Technology Jalandhar,
Punjab, India (2019).
 National workshop on "Raman and
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	 Fluorescence Based Low Cost Indigenous Spectroscopy in India", held on January 14, at Amity University Haryana (2019). Short term course on "Current Trends in Condensed Matter Physics" from September 25 – 29, organised by Department of Physics Dr. B R Ambedkar National Institute of Technology Jalandbar, Punjab, India (2020)
	 Jalandhar, Punjab, India (2020). Attended a Short Term course on "Advanced Energy Materials" from Oct. 12- Oct. 16 organized by the Department of Physics NIT Jalandhar, (2020). Participated in 4th National School on Heavy Ion Radiation Biology (NSHIRB 2021) from August 17-20, conducted by Inter University Accelerator Centre (IUAC), New Delhi (2021). Participated in Short Term Course on New Generation Functional Materials and Their Applications (NFMA-2021) held on February 3-7 organized by NIT Hamirpur (2021).
Research Paper/ Publication	1.Chand, S., Mehra, R., & Chopra, V. (2020). Recent Developments in Phosphate Materials
	for their TLD Applications. Luminescence, https://doi.org/10.1002/bio.3960 (SCI Scopus)

 2. Chand, S., Mehra, R., & Chopra, V. (2022).Recent advancements in calcium based phosphate materials for luminescence applications. Journal of Luminescence, 119383. (SCI, Scopus)
3. Chand, S., Mehra, R., & Chopra, V. (2023). Thermoluminescence dosimeter (TLD) studies of Ca ₁₀ K(PO ₄) ₇ : Dy phosphor for applications in radiation dosimetry. Luminescence Chand, S., Rani, R., & Yadav, K. (2016) (SCI, Scopus)
 4. Chand, S., Rani, R., & Yadav, K. (2016). Effect of Concentration of Ti Doping on Optical Properties of Zn_{1-x}Ti_xO (where x= 0.0, 0.1, 0.3, 0.5, 0.7 and 0.9) Thin Films Deposited by Spray Pyrolysis. <i>Asian Journal of Engineering and Applied Technology</i>, 5(1), 12-14.
5. Mehra, R., Kaur, S., Chand, S., Charan, C., & Mehta, M. (2021). Dosimetric assessment of primordial radionuclides\ in soil and groundwater of Sikar district, Rajasthan. Journal of radioanalytical and nuclear chemistry, 330, 1605-1620. (SCI, Scopus)
6. Rahim, A., Khan, S., Rani, A., Abida, K., Mehra, R., & Chand, S. (2023). Estimation of 226Ra, 232Th and 40K activity from the Soil Samples of Ganderbal and Budgam Districts of Jammu and Kashmir, India. Journal of the

	Geological Society of India, 99(12), 1767-1775. (SCI, Scopus)
	7. Mahur, A. K., Sharma, R. L., Mehra, R., Chand, S., Singh, H., & Sharma, S. (2024). Natural radioactivity, radon exhalation rates and radiation doses in the soil samples collected from the vicinity of Kolaghat thermal power plant, West Bengal, India. Journal of Radioanalytical and Nuclear Chemistry, 1-8. (SCI, Scopus)
	8. Rahim, A., Khan, S., Mehra, R., Chand, S., Majeed, I., & Ahmed, R. (2024). Age- dependent dose assessment of uranium exposure in groundwater of Ganderbal and Budgam districts in Jammu and Kashmir. Water Supply, ws2024185.(SCI, Scopus)
Others	 Worked as President, Physical Science Society, NIT Jalandhar from Feb 2022- Feb 2023. Worked as Head, Web Development Committee, Physical Science Society, NITJ, Sept.2019-Feb. 2022,
	JRF 2018-2020SRF 2020-2023
	Ongoing research project: "Dosimetric

investigation of some energy independent calcium based phosphate materials for TLD applications" funded by IUAC New Delhi
 Awarded Certificate in Physics of Semiconductors by IIT Kanpur Awarded certificates on Radiation protection, Nuclear Security and other course modules by IAEA, Vienna, Austria. Life Member: Nuclear Track Society of India