

Department of Physics
List of (Ongoing) Ph. D. Scholars

Sr. No.	Name of Candidate	Title	Supervisor	Date of Registration
1.	Mr. Prabhat Kumar Saran (12079007)	Theoretical Analysis of Neutron Induced Radioactivity Generation in the Energy Range of 1 to 200 MeV	Prof. Sneha Lata Goyal Prof. Maitreyee Nandy	2012 Admission cancelled
2.	Ms. Komal 13079004	An Investigation of Light Scattering parameters by Biological Cells and Macromolecules.	Dr. David Joseph	2013 Admission Cancelled
3.	Mr. Parveen Kumar 13079008	Optical Bisability Studies in Dye Doped Glasses	Dr. David Joseph	2013
4.	Ms. Pinki 14079001	Simulation on Working of Solar Cells Using Finite Difference Time Domain (FDTD) Method.	Dr. Ajay Shankar/Prof. Devendra Mohan	2014
5.	Anil Kumar 14079006	Synthesis and Characterization of Transition Metal Based Multiferroics	Dr. R.S. Kundu /Dr. Rajesh Punia	2014
6.	Kirti Kapoor 14079008	Study of Nonlinear Optical Properties of Transition Metal Doped Oxide Films	Prof. Devendra Mohan	2014
7.	Atul Kumar 14079011	Investigation of Property Evolution in the Perovskite Structured Multiferroics	Dr. Rajesh Punia	2014
8.	Ashok Chauhan 14079013	Study of Highly Reflective and Low Ohmic Contacts to p-GaN for GaN-Based Vertical Light-Emitting Diodes	Dr. Rajesh Punia/ Dr. R.S.Kundu	2014
9.	Sonia Rani 16079001	Study of crystal structure, magnetic and dielectric properties of Dy and Er doped BiFeO ₃ multiferroics	Prof. Sujata Sanghi	2016
10.	Sardul Singh Dhayal 16079002	Fabrication & Characterization of Organic field effect transistors	Dr. Rajesh Punia/ Dr Amit Kumar	2016 shifted from Optical Engg. to ECE
11.	Vinita 16079003	Optical studies of Langmuir Blodgett films for light Technology	Dr. David Joseph/ Dr. Rajesh thakur	2016 shifted from Optical Engg. to ECE
12.	Sandeep Jhorar 14078007	Investigation on Fiber Mach-Zehnder Interferometric Sensor for Temperature Measurement	Dr. Ajay Shankar	2016

13.	Poonam 16079007	Realization of Optical Limiting and optical switching in photonic materials	Prof. Devendra Mohan	2016
14.	Muskaan Tuteja 16079013	Study of crystal structure dielectric and magnetic properties of Ti and Mn doped $Bi_{1-x}Pr_xFeO_3$ based multiferroics	Prof. Sujata Sanghi	2016
15.	Shyam Sunder 16079015	Growth and characterization of multicomponent oxide ceramics and thin films for multifunction device application	Prof. Ashish Agarwal, Dr. Monika Tomar	2016
16.	Vibha 17079002	Investigating of crystal structure dielectric and magnetic properties of duple perovskites	Prof. Sujata Sanghi/ Prof. Ashish Agarwal	2017
17.	Monika 17079003	Study of nonlinear optical parameters in Transition metal polymer nanomaterials	Prof. Devendra Mohab/ Prof. Sujata Sanghi	2017
18.	Pawan Kuamr 17079005	Synthesis of Non Linear optical materisla based thin films by pulsed laser deposition (PLD) Teechnique	Dr. David Joseph	2017
19.	Sonal Rani 180070090001	Fabrication of Perovskite Solar Cell and its Characterization with Improved Stability	Porf. Devendra Mohan/ Prof. Rakesh Dhar	2018
20.	Kavita 180070090002	Linear and Nonlinear Optical Properties of Modified Chalcogenide Glasses	Prof. Devendra Mohan/ Porf. Sujata Sanghi	2018
21.	Meenal 180070090003	Investigation of Crystal Structure, Dielectric and Magnetic Properties of Spinel ferrite and $BaTiO_3$ Based Multiferroic Composites	Prof. Sujata Sanghi	2018
22.	Munish Kumar 180070090004	Synthesis of Noble Metal Nanostructures by Ion Beam Irradiation and their Characterization	Dr. Ramesh Kumar/ Dr. Tanuj Kumar	2018
23.	Sunny Yadav 180070090005	Study of Nonlinear Optical Properties of Rare-Earth Doped Thin Films.	Prof. Rakesh Dhar/ Prof. Devendra Mohan	2018
24.	Agam Rani 180070090006	Study of modified ABO_3 ceramics for Dielectric Capacitor Applications	Dr. Neetu Ahlawat/Dr. R.S. Kundu	2018
25.	Anand Kumari 180070090007	Investigation of Crystal Structure, Dielectric and Magnetic Properties of $BaTiO_3$ and Hexaferrites Based Multiferroic Composites	Prof. Sujata Sanghi	2018

26.	Jyoti 180070090009	Synthesis of Quantum Dots & Their Nanocomposites for Optoelectrical and Fluorescent Applications.	Prof. Rakesh Dhar	2018
27.	Poonam 180070090011	Electronic Properties and Half-Metallic Response in Binary and Ternary Alloys for Spintronics	Dr. Hardev Singh	2018
28.	Narender Kumar 180070090012	Ab-initio Study of Heusler Alloys for Thermoelectric Applications	Dr. Hardev Singh/ Dr. Mukhtiyar Singh	2018
29.	Pinki 190070090001	Polarization studies of scatters using Mueller matrix Formulation	Dr. David Joseph	2019
30.	Kanika Rani 190070090002	'Synthesis and Characterization of Modified Calcium Copper Titanate (CCTO) Ceramics''	Dr. Neetu Ahalwat/ Prof. R.S.Kundu	2019
31.	Umesh Bhakar 190070090003	Study of different ceramics for their application as Hydroelectric Cell (HEC)	Prof.Ashish Agarwal	2019
32.	Vikas Kumar 190070090004	Synthesis and Characterisation of Transition Metal doped Graphene Composites for Sensor Applications	Prof. Devendra Mohan	2019
33.	Shakuntala Rani 190070090005	Radioactive Assessment of Soil and Water of Fatehabad & Hisar Districts of Haryana, India	Prof. R.S.Kundu/ Prof. V.K.Garg	2019
34.	Chetan Sharma 190070090006	Optical Limiting Properties of Transition Metal Oxide Thin Films	Prof. Devendra Mohan	2019
35.	Anoop Singh 190070090007	Investigation of different Oxides for their Application as Hydroelectric Cell (HEC)	Prof. Ashish Aggarwal	2019
36.	Reena Rani 190070090008	Investigation of electrical properties of MWCNT & MWCNT-Polymer composites	Dr. Ravi Bhatia	2019
37.	Pinki 190070090010	Removal of heavy metals in waste water using Ni-Zn Nanoferrites	Prof. Rakesh Dhar/ Prof. Atul Thakur, Amity University, Gurgaon, Haryana	2020
38.	Minakshi 190070090011	Study Of Linear & Nonlinear Optical Properties Of Transition Metal Oxide Nanoparticles	Prof. Devendra Mohan/ Dr. Gagan Kumar, IIT Guwahati, Assam	2020

39.	Mr. Satyender Singhmar 190070090012	Structural, Electronic, and Optical properties of novel semiconducting compounds for optoelectronic applications	Dr. Hardev Singh / Prof. Sunita Srivastava	2020
40.	Sanjeev 190070090013	“Ab Initio Study of Topological Insulators for Spintronics Application”	Dr. Ramesh Kumar	2020
41.	Meenu 190070090014	Synthesis and Characterization and Electrical Properties of Carbon Nano-Materials and Polymer Composites	Dr. Ravi Bhatia/Dr. NVSP Sameera Ivaturi DST INSPIRE Faculty	2020
42.	Sonam Rani 190070090015	Synthesis and Characterization and Electrical Properties of Transition Metal Dichalcogenides	Dr. Ravi Bhatia/Dr. NVSP Sameera Ivaturi DST INSPIRE Faculty	2020
43.	Rahul Madan 190070090016	Study Of Thermoelectric And Nonlinear Optical Properties Of Phosphorene Composites	Prof. Devendra Mohan	2020
44.	Reetu Sangwan 190070090017	Study Of Optical Properties In Transition Metal Oxide Nanoparticles Grafted Graphitic Carbon Nitr Ides	Prof. Devendra Mohan	2020
45.	Ravinder Kumar 190070090018	Linear & Non linear Spectroscopic Studies of Rare Earth Doped Crystals	Dr. David Joseph	2020
46.	Anita 190070090019	Investigation of Thermoelectric Properties of Metal Chalcogenides.	Dr. Vivek Gupta	2020
47.	Rajesh Kumar 190070090020	Investigation of Nuclear Photodisintegration Process Using Short Range Spatial Correlated (SRSC) Nucleon Based Approach	Dr. Ranjeet	2020
48.	Deepa 190070090022	“Structural Analysis and Characterization of sodium Bismuth Titanate (NBT) Based Ceramic”	Dr. Neetu Ahlawat	2020
49.	Aryan Singh Lather 190070090023	“Investigation of Structural and Dielectric properties of modified BaTiO ₃ ceramics”	Dr. R.S. Kundu	2020
50.	Ruchi 190070090024	“Synthesis and Characterization of Conducting Polymers based Composites for Electrical Applications”	Dr. Vivek Gupta	2020
51.	Rimple Saini 190070090025	Growth and characterization of Non linear Optical crystals	Dr. David Joseph	2020

52.	Kavita Rani 180070080005	Investigation of Thermoelectric Properties of Bismuth Chalcogenides	Dr. Vivek Gupta/ Dr. Ranjeet	2021
53.	Pawan Sharma 190070090104	Investigation of crystal structure, dielectric and energy storage properties of oxide ceramics	Prof. Sujata Sanghi	2021
54.	Pooja 190070090105	“Investigation of crystal structure and dielectric properties of BaTiO ₃ based lead –free ceramics for energy storage properties”	Prof. Sujata Sanghi / Prof. Satish Khasa	2021
55.	Mini Yadav 190070090110	Study on Neutral Density Filter With Combination of Metals For Better Neutrality	Dr. Ajay Shankar	05.06.2021
56.	Rashmi Kajal 190070090112	Study of Optical And Electrical Transport Properties of Irradiated Metal Oxide Thin Films	Prof. Devendra Mohan	05.06.2021
57.	Anisha 190070090114	Ab-Initio Study of 2D Transition Metal Dichalcogenides for Thermoelectric Applications	Dr. Ramesh Kumar/ Prof. Sunita Srivastava	05.06.2021
58.	Gobinda 190070090115	“Investigation of crystal structure, dielectric and magnetic properties of ceramics based quantum spin liquid material”	Prof. Ashish Agarwal	2021
59.	Renu Bala 190070090118	Study on Substrate Refractive Index Sensitivity of Multilayer Antireflection Coating Design	Dr. Ajay Shankar	05.06.2021
60.	Getu Endale 190070090119	Simulation and Measurement of Optical Non-Linearity in Photonic Materials	Prof. Devendra Mohan	05.06.2021
61.	Roshi 180070080006	Loss Analysis of Crystalline Silicon Solar Cell	Dr. Vivek Gupta	2021
62.	Anjali 190070090101	Synthesis, Characterization and Charge Transport of Tungsten Disulfide based Nanostructures	Dr. Ravi Bhatia	2021
63.	Mamta Rani 190070090102	Study on phase shifting interferometer for 2-D Refractive index distribution of liquid	Dr. Ajay Shankar	2021
64.	Karamvir 190070090106	Synthesis, characterization and non-linear optical studies of metal-oxide thin films	Dr. David Joseph	2021
65.	Sharwan Kumar 190070090107	Linear & Non-Linear Optical Properties of Ion/Molecule Doped Borate Glass	Dr. David Joseph	2021

66.	Pooja 190070090108	Investigation of microstructure heterogeneity and energy storage performance of the lead free modified NBT based relaxor ferroelectric ceramics.	Prof. Neetu Ahlawat	2021
67.	Deepak 190070090111	Synthesis of 2D Transition Metal Dichalcogenides and Fabrication of Heterostructures by Exfoliation Approaches.	Dr. Ravi Bhatia	2021(Admission cancelled 17/12/2021)
68.	Shalu 200070090103	‘Investigation of crystal structure, morphology and dielectric properties of double perovskites’	Prof. Ashish Agarwal	2021
69.	Amit Kumar 200070090105	‘Investigation of crystal structure and magnetic of spin $\frac{1}{2}$ compound’	Prof. Ashish Agarwal	2021
70.	Kavita Rani 210070090001	Investigation of Thermoelectric Properties of Bismuth Chalcogenides	Dr. Vivek Gupta/ Dr. Ranjeet	05.06.2021
71.	Bhupesh 190070090117	“Investigation of Natural Radioactivity around the Khandela Region of Rajasthan, India”	Dr. Ranjeet	16.05.2022
72.	Naresh Kumar 200070090102	Assessment of Natural Radioactivity in Soil and Water around Khetri Region of Rajasthan, India	Dr. Ranjeet/ Dr. Vivek Gupta	16.05.2022
73.	Deepak Saini 200070090106	Study of A/B Site Doping Effect on Structure, Electrical & Dielectric Properties of ABO_3 Ceramics	Prof. Neetu Ahlawat	16.05.2022
74.	Kanika Poonia 200070090108	“Synthesis And Characterization of Barium Titanate Stannate Based Novel Ceramics”	Prof. R.S. Kundu	16.05.2022
75.	Bhim Singh 200070090109	Performance Analysis of Multi-junction Solar Cell	Dr. Vivek Gupta	16.05.2022
76.	Dimple 180070080001	SYNTHESIS AND CHARACTERIZATION OF NANO- COMPOSITES OF CONDUCTING POLYMERS AND EXPLORATION OF THEIR APPLICATIONS	Prof. Devendra Mohan/ Prof. Ravish Garg	22.03.2023
77.	Bajinder Singh 190070090113	SYNTHESIS AND CHARACTERIZATION OF METAL OXIDE	Prof. Devendra Mohan/ Prof. Ravish Garg	22.03.2023

		NANOPARTICLES FOR SENSING APPLICATIONS		
78.	Kanta 190070090109	Studies on Optical and Electrical Properties of Transparent Conducting Oxide Thin Films	Dr. Vivek Gupta	22.03.2023
79.	Jyoti 200070090104	“Assessment of Natural Radioactivity along the Manali - Leh High way of India”	Dr. Ranjeet/ Dr. Pushpendra P. Singh	22.03.2023
80.	Ravinder 200070090107	“Studies on utilization of nanoparticles for sensing environmental pollutants”	Dr. Vivek Gupta/ Dr. Sandeep Kumar	22.03.2023
81.	Rekha Dhiman 200070090111	“Investigation of Natural Radioactivity around Adi Badri Region, Yamuna Nagar District of Haryana, India”	Dr. Ranjeet/ Prof. Suneel Kumar (CUHM)	24.04.2024
82.	Aarti 200070090112	“Structural Investigation and Dielectric Response of Modified Calcium Based ACTO Ceramics”	Prof. Neetu Ahlawat	24.04.2024
83.	Pankaj Kumar 200070090113	Magnetic Properties of 2D Materials and their van der Waals Heterostructures	Dr. Hardev Singh/ Prof. Manish Kumar, School of Physical Sciences, JNU, New Delhi	24.04.2024
84.	Pooja Rani 200070090115	“Electrochemical Properties of 2D Materials for Energy Storage Devices”	Dr. Hardev Singh/Dr. Veenu Mehta, Govt. P.G. College, Hisar	24.04.2024