

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

Sr. No.	Name of Candidate	Title	Supervisor	R.D.C Date & Year of Award
1.	Sunayana Nepal	Photorefractive Non-Linear Optical Effects in Photorefractive Crystals	Dr. Praveen Aghamkar	2004
2.	Vijay Kumar Sharma	Study of Excitation Transfer And Photo-Physical Parameters in Lasing Materials.	Dr. Devendra Mohan	2005
3.	Sunita Sindhu	To Study the Structure and Electrical Properties of Semiconducting Oxide Glasses.	Dr. Sujata Sanghi	2005
4.	Sanjay	Investigation of Structural, Optical and Transport Properties of Synthesized Oxide and Non-oxide Glasses containing Transition metal Ions	Prof. Nawal Kishore	2005
5.	Sunil Kumar Rohilla	Coprecipitative Synthesis and Characterization of Nano Composites Of Metal Oxides	Dr. Praveen Aghamkar	2006
6.	Raj Kumar 0507903	Investigative Studies of Phase Objects in Laser Schlieren Diffraction Interferometry and Development of Machine Readable Features in security Holograms	Dr. Devendra Mohan/ Dr. A.K. Agarwal (Head/Scientist 'G' Coherent Optics Division Central Scientific Instrument, Organization Chandigarh)	10/05/2008
7.	Manjeet 0507907	Third-Order Nonlinear Optical Effect in Direct Gap Semiconductors	Dr. Praveen Aghamkar	03/07/2008
8.	Ms. Meenakshi Sharma 0407903	Development and Study of Laser Induced Photo Physical Properties in Optical Materials	Dr. Devendra Mohan	12/05/2009
9.	Sonam Rani 0507904	Structural, Optical and Electrical Properties of Mixed Oxide Glasses	Dr. Sujata Sanghi	26/06/2009
10.	Ved Parkash 0407901	Climate Change Over the Schirmacher Region, East Antarctica	Prof. Nawal Kishore/ Dr. H.N.Dutta	08/12/2009
11.	Sunita Sharma 0507905	Study of Non-Linear Properties in Materials of the Optical Wave Guide	Dr. S.K.Ghoshal/ Dr. Devendra Mohan	26/11/2009
12.	Ms. Neetu Ahlawat 0707903	Structural Characterization and Impedence Spectroscopy of Heavy Metal Glasses	Dr. Sujata Sanghi	26/10/2009
13.	Surender 0607901	Synthesis and Characterization of Metal Oxide Nanocomposites Derived from Sol-Gel Technique	Prof. Nawal Kishore/ Dr. Parveen Aghamkar	26/11/2009
14.	Madan Singh 0307901	Investigation of Optical Data Security System Some Architecture Algorithms	Dr. Devendra Mohan/ Prof. Kehar Singh	20/04/2010

15.	Ms. Anshu 0507908	Characterization of Oxide Glasses by : (A) UV-VIS-NIR, FTIR & EPR Spectroscopies; and (B) DC & AC Electrical Conductivity	Dr. (Mrs.) Sujata Sanghi	24/08/2010
16.	Mr. Umesh Gupta 0307905	Monte Carlo Study of Alloys & High Temperature Superconductors and Laser Induced Transitions in Sol-Gel Based Materials	Prof. Devendra Mohan/ Dr. S.K. Ghoshal	28/10/2010
17.	Mrs. Karan Singh Gill 0307904	Study of Optical and Mechanical Properties of Laser Dyes-Doped Polymers, BCC Metals and Layered Superconductors	Dr. Devendra Mohan/Dr. Sib Krishna Ghoshal	02/12/2010
18.	Mr. Mahender Singh Sheoran 0307904	Investigation of Electronic and Optical Properties of some Modified Amorphous Semiconductors	Prof. Nawal Kishore/ Dr. A.S. Maan	07/02/2010
19.	Ram Saran 0607903	Radon Estimation and Mitigation Strategies	Prof. Nawal Kishore/ Dr. S.K.Chakarvarti	30/082011
20.	Mr. Inder Pal 0707905	Spectroscopic Properties and Structure of Rare Earth/Transition Metal Doped Glasses	Dr. Ashish Agarwal	29/12/2011
21.	Sanjay 0507901	Investigation of Structural, Optical and Transport Properties of Synthesized Oxide and Non-oxide Glasses containing Transition metal Ions	Prof. Nawal Kishore	23/08/2012
22.	Sunil Kumar Rohilla 0607902	Coprecipitative Synthesis and Characterization of Nano Composites Of Metal Oxides	Dr. Praveen Aghamkar	31/05/2012
23.	Navneet Singh 0707906	Sol-Gel Synthesis and Characterization of Nanocrystalline Materials	Dr. Ashish Agarwal	30/07/2012
24.	Reetu 0907904	Structural Dielectric and Magnetic Properties of Doped Multiferroic Ceramics	Dr. Sujata Sanghi/ Dr. Ashish Agarwal	23/04/2013
25.	Rajesh Punia 0707901	Study of Electronic Transport Properties of Some Modified Semiconductors	Prof. Nawal Kishore/ Dr. R.S.Kundu	15/03/2013
26.	Purnima 0907902	Study of Optical Limiting Properties in Nonlinear Absorbing Chromophores	Prof. Devendra Mohan	06/06/2013
27.	Vijender Singh 0707907	Synthesis and Characterization of Some Polymers and Study of Third Order Non Linear Optical Phenomena	Dr. Praveen Aghamkar	23/12/2013
28.	Divya Jyoti 11079004	Dye Sensitized Solar Cells Based on Mesoporous Oxide Electrodes	Prof. Devendra Mohan/ Dr. Rakesh Dhar	29/10/2013
29.	Dhreej Sharma 0507906	Optical Wave Mixing in Photo-refractive Crystals	Dr. Praveen Aghamkar	31/03/2014
30.	Ashima (0907903)	Synthesis and Characterization of Mixed Ferrites.	Dr. Sujata Sanghi	25/05/2014
31.	Paramjeet 0707904	Preparation and Investigation of Structure & Electrical Properties of	Dr. Ashish Agarwal	10/07/2014

		Nanoconductors Materials.		
32.	Monica 1107001	Structural Characterization and Dielectric Properties of Lead Free Ceramics	Dr. Neetu Ahlawat/ Dr. Sujata Sanghi	21/05/2014
33.	Jaipal Hooda 070702	Synthesis and Characterization of Some Oxide/Chalcogenide Glasses)	Prof. Nawal Kishore/ Dr. R.S.Kundu	10/07/2014
34.	Ms. Sunita Rani 11079005	Study of Optical Second and third Harmonic Generation from Non-Centro Symmetric Chalcogenide Materials	Dr. Devendra Mohan/ Prof. Nawal Kishore	13/10/2014
35.	Ms. Saroj Rani 12079009	Investigation Structure and Dielectric properties of Bi ₂ O ₃ /SiO ₂ based Glasses	Dr. Sujata Sanghi/ Dr. Neetu Ahlawat	27/07/2015
36.	Ms. Deepika 12079002	Synthesis of Semiconductor Quantum Dots and Study of Their Optical/Electrical properties	Dr. Rakesh Dhar	10/08/2015
37.	Ms. Asha 10079001	Synthesis and Characterization of Doped and Undoped Conducting Polymers	Dr. Sneha Lata Goyal/ Prof. Nawal Kishore	18/08/2015
38.	Ms. Meenakshi 12079001	Synthesis and Characterization of Bismuth Based Oxide Glasses	Dr. R.S. Kundu/ Dr. Rajesh Punia	19/11/2015
39.	Ms. Rajni Bala 0907905	Structural, Electrical and Nonlinear Optical Properties of Heavy Metal Oxide Glasses	Dr. Ashish Aggarwal	2015
40.	Ms. Priyanka (12079010)	Crystal Structure Dielectric and Magnetic Properties of Modified BiFeO ₃ Ceramics	Prof. Nawal Kishore Dr. Neetu Ahlawat	15/03/2016
41.	Mr. Balvinder Singh (12079012)	Baseline Radioactivity (Natural and Fallout) in Different Environmental Matrices within 30-Km Radius around Proposed Nuclear power Project, Gorakhpur	Prof. Nawal Kishore Dr. V.K. Garg	15/03/2016
42.	Smriti Sharma 12079003	Study structural, Thermal and Electrical properties Conducting Polymers	Prof. Sneha Lata Goyal/ Prof. Nawal Kishore	15/03/2016
43.	Sunil Dhankhar 11079003	Study of Electronic Properties of Heavy Metal Oxide Based materials	Prof. Nawal Kishore/ Dr. R.S. Kundu	15/03/2016
44.	Ms. Kirti (12079006)	Synthesis and Characterization of Rare Earth Doped Oxide glasses	Dr. R.S. Kundu Prof. Nawal Kishore	27/01/2017
45.	Ms. Sarita Sharma 12079008	“Synthesis and Characterization of ZnO based Nanomaterials.”	Dr. R.S.Kundu	27/01/2017
46.	Ms. Neelam 13079001	Nonlinear Optical Properties of Heavy Metal Based Amorphous Materials.	Prof. Nawal Kishore	09/08/2017
47.	Ms. Manisha 13079002	Crystal Structure Refinement, Dielectric and Magnetic Properties of Rare Earth/ Transition Metal Doped BiFeO ₃	Prof. Sujata Sanghi	22/11/2017
48.	Ms. Rekha Kumari (12079011)	Synthesis and Characterization of Ferroelectric/ Ferromagnetic Ceramics	Dr. Neetu Ahlawat Prof. Ashish Agarwal	22/11/2017

49.	Anil Kumar (11079002)	Study of Nonlinear Optical Switching Properties of Dye-Doped Organic/Inorganic Materials	Prof. D.Mohan/ Dr. A.K.Gupta	2018
50.	Ms. Kavita 13079005	Rietveld Refinement and Dielectric Properties of Modified Na _{0.5} Bi _{0.5} TiO ₃ Ceramics	Prof. Ashish Agarwal	04/04/2018
51.	Ms. Meenakshi (12079004)	Study of Structure and Optical Properties of IR Transmitting Glasses	Dr. Ajay Shankar Prof. Ashish Agarwal	10/07/2018
52.	Ms. Preeti 13079007	Synthesis and Characterization of Lead Free Multiferroics	Dr. Rajesh Punia	29/08/2018
53.	Mr. Karmvir Singh (12079005)	Synthesis of Metal Oxide Thin Films and Study of their Optical/Electrical Properties	Dr. Rakesh Dhar	03/08/2018
54.	Mr. Sunil Kumar (12079013)	Investigation of Laser Induced Damage Threshold on Multilayer oxide Thin Film	Dr. Ajay Shankar Prof. Nawal Kishore	03/08/2018
55.	Ms. Bulkesh 13079006	Fabrication of Dye Sensitized Solar Cell and its Characterization for Better Performance	Prof. Devendra Mohan	29/08/2018
56.	Sandeep 14079009	Dosimetric Study of High Energy X-Ray in Broad Beam and Narrow Beam Geometry	Dr. Rajesh Punia	10/07/2018
57.	Ms. Babita Ball (12079014)	Study of Acoustic Parameters in Forensic Speaker Identification in terms of Probability Scale and its statistical Correlation	Dr. Rakesh Dhar Dr. C.P. Singh	27/03/2019
58.	Ms. Suman Rani 13079003	Study of Structure and Electrical Characterization of High Dielectric Ceramics Materials	Dr. Neetu Ahalwat	18/02/2019
59.	Kanta 14079002	Synthesis and Characterization of Modified BaTiO ₃ Multiferroics	Dr. Neetu Ahlawat/Dr. R.S. Kundu	05/04/2019
60.	Tanvi Bhasni 16079006	Investigation of crystal structure, dielectric and magnetic properties of ZnFe ₂ O ₄ and Na _{0.5} Bi _{0.5} TiO ₃ based multiferroic Composites	Prof. Ashish Agarwal	18/08/2020
61.	Sunita Rani 14079003	Structural Optical and Electrical Characterization of Tellurite Based Glasses	Dr. R.S. Kundu /Dr. Neetu Ahalwat	18/08/2020
62.	Jogender Singh 16079014	Study of crystal structure, dielectric and magnetic properties of holmium doped BiFeO ₃ based multiferroics	Prof. Ashish Agarwal	09/09/2020
63.	Amitava Ghosh 16079008	Fabrication and Characterization of Aspheric and Freeform Optics	Prof. Devendra Mohan	30/10/2020
64.	Sandhaya 14079004	Investigation of Nb and Mn doping in modified BiFeO ₃ multiferroics	Prof. Sujata Sanghi	24/12/2020

65.	Rishi Pal 16079009	Synthesis and Characterization of chemically Modified Polyaniline Based composites	Prof. Sneh Lata Goyal	19/03/2021
66.	Pawan Kumar 16079011	Theoretical analysis of production cross-section of radio nuclides in proton induced reactions for the energy range 1 to 200 MeV	Prof. Sneh Lata Goyal	19/03/2021
67.	Kamal Rani 14079007	Investigation on Fiber Mach-Zehnder Interferometers for Strain Measurement	Dr. Ajay Shankar	25/06/2021
68.	Ompal Singh 14079005	Doping effects of Nd and Pr in Modified BiFeO ₃ Multiferroics	Prof. Ashish Agarwal	09/12/2021
69.	Kuldip Singh 14079012	Study of p and n Ohmic Contacts to GaN and Their Integration to GaN Based Light-Emitting Diodes	Dr. R.S.Kundu/Dr. Rajesh Punia	09/12/2021
70.	Manisha 16079012	Investigation of Crystal structure, dielectric and magnetic Properties of transition metal doped Bi _{1-x} Nd _x FeO ₃ based multiferroics	Prof. Ashish Agarwal	09/12/2021
71.	Satya Dev 16079004	Study of Metal Oxide films As Gas Sensor	Prof. Rakesh Dhar	03/02/2022
72.	Pardeep Kumar Roll no. 180070090008	Deposition and characterization of various thin films for biological application	Prof. Rakesh Dhar	12.05.2022
73.	Veenu Mehta 17079001	Promising Electrode materials for energy storage devices	Dr. Hardev Singh/Prof. Tankeshwar Kumar	29.07.2022
74.	Nisha 180070090010	Electronic and Thermoelectric Properties of Topological Materials.	Dr. Hardev Singh	27.05.2022
75.	Gagandeep 180070090013	Computational Study of Perovskite Materials based Solar Cells.	Dr. Ramesh Kumar/ Dr. Mukhtiyar Singh	27.05.2022
76.	Sonia Kumari 16079010	Study of non linear optical properties of TeO ₂ and Bi ₂ O ₃ based glasses	Prof. Devendra Mohan	12.05.2022
77.	Naresh 14079010	Synthesis and Characterization of Metal Oxide Nanowires.	Prof. Rakesh Dhar/Dr. Ajit Kumar Mahapatro	27/03/2023
78.	Pinki 190070090010	Removal of heavy metals in waste water using Ni-Zn Nanoferrites	Prof. Rakesh Dhar/ Prof. Atul Thakur, Amity University, Gurgaon, Haryana	28.06.2023

79.	Monika 17079003	Study of nonlinear optical parameters in Transition metal polymer nanomaterials	Prof. Devendra Mohan/ Prof. Sujata Sanghi	27.10.2023
80.	Priya Rani 190070090021	Theoretical Study of Electronic and Optical Properties of Quantum Dots	Dr. Ranjeet & Prof. Sunita Srivastava	07.11.2023
81.	Poonam 16079007	Realization of Optical Limiting and optical switching in photonic materials	Prof. Devendra Mohan	07.11.2023
82.	Munish Kumar 180070090004	Synthesis of Noble Metal Nanostructures by Ion Beam Irradiation and their Characterization	Dr. Ramesh Kumar/ Dr. Tanuj Kumar	24.11.2023
83.	Vikas Kumar 190070090004	Synthesis and Characterization of Transition Metal doped Graphene Composites for Sensor Applications	Prof. Devendra Mohan	27.12.2023
84.	Monika Rani 190070090009	Study of Performance Parameters of Diffraction Lloyd Mirror Interferometer	Dr. Ajay Shankar/ Dr. Raj Kumar Scientist CSIO, Chandigarh	23.01.2024
85.	Ekta Arya 17079004	Investigation of crystal structure dielectric and magnetic properties of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$ and Hexaferrites based multiferroic composites	Prof. Ashish Agarwal / Prof. Rakesh Dhar	26.02.2024
86.	Sonia Rani 16079001	Study of crystal structure, magnetic and dielectric properties of Dy and Er doped BiFeO_3 multiferroics	Prof. Sujata Sanghi	19.03.2024
87.	Sanjeev 190070090013	“Ab Initio Study of Topological Insulators for Spintronics Application”	Dr. Ramesh Kumar	02.05.2024
88.	Anisha 190070090114	Ab-Initio Study of 2D Transition Metal Dichalcogenides for Thermoelectric Applications	Dr. Ramesh Kumar/ Prof. Sunita Srivastava	02.05.2024
89.	Kavita 180070090002	Linear and Nonlinear Optical Properties of Modified Chalcogenide Glasses	Prof. Devendra Mohan/ Prof. Sujata Sanghi	02.05.2024
90.	Anand Kumari 180070090007	Investigation of Crystal Structure, Dielectric and Magnetic Properties of BaTiO_3 and Hexaferrites Based Multiferroic Composites	Prof. Sujata Sanghi	01.07.2024
91.	Rahul Madan 190070090016	Study Of Thermoelectric And Nonlinear Optical Properties Of Phosphorene Composites	Prof. Devendra Mohan	30.07.2024
92.	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	27.08.2024

93.	Meenal 180070090003	Investigation of Crystal Structure, Dielectric and Magnetic Properties of Spinel ferrite and BaTiO ₃ Based Multiferroic Composites	Prof. Sujata Sanghi	01.07.2024
94.	Sonam Rani 190070090015	Synthesis and Characterization and Electrical Properties of Transition Metal Dichalcogenides	Dr. Ravi Bhatia/Dr. NVSP Sameera Ivaturi DST INSPIRE Faculty	27.08.2024
95.	Rashmi Kajal 190070090112	Study of Optical And Electrical Transport Properties of Irradiated Metal Oxide Thin Films	Prof. Devendra Mohan	
96.	Naresh Kumar 200070090102	Assessment of Natural Radioactivity in Soil and Water around Khetri Region of Rajasthan, India	Dr. Ranjeet/ Dr. Vivek Gupta	
97.	Kavita Rani 210070090001	Investigation of Thermoelectric Properties of Bismuth Chalcogenides	Dr. Vivek Gupta/ Dr. Ranjeet	
98.	Aryan Singh Lather 190070090023	“Investigation of Structural and Dielectric properties of modified BaTiO ₃ ceramics”	Prof. R.S. Kundu/ Prof. Neetu Ahlawat	
99.	Anita 190070090019	Investigation of Thermoelectric Properties of Metal Chalcogenides.	Dr. Vivek Gupta	
100.	Getu Endale Gebremichael 190070090119	Simulation and Measurement of Optical Non-Linearity in Photonic Materials	Prof. Devendra Mohan	