

**Faculty of Physical Sciences**  
**Department of Physics**  
**List of Ph.D Completed Research Scholars**

<b>Sr. No.</b>	<b>Name of Research Scholar</b>	<b>Father's Name</b>	<b>Regn. No.</b>	<b>NAME OF THE SUPERVISOR/ CO-SUPERVISOR</b>	<b>Topic</b>	<b>DATE OF AWARD OF DEGREE</b>
1.	Ms. Sunayana Nepal	Sh. J.K. Nepal	9907902	Dr. Parveen Aghamkar	PHOTOREFRACTIVE NON-LINEAR OPTICAL EFFECTS IN PHOTOREFRACTIVE CRYSTALS.	21.12.2004
2.	Mr. Vijay Kumar Sharma	Sh. Shyam Sunder Sharma	0107901	Dr. Devender Mohan and Dr. P.D. Sahare	STUDY OF EXCITATION TRANSFER AND PHOTOPHYSICAL PARAMETERS IN LASING MATERIALS.	11.10.2005
3.	Ms. Sunita Sindhu	Sh. Ran Singh	02-07-9-01	Dr. (Mrs.) Sujata Sanghi	TO STUDY THE STRUCTURE AND ELECTRICAL PROPERTIES OF SEMI-CONDUCTING OXIDE GLASSES.	11.10.2005
4.	Sh. Manjeet Singh	Sh. Katar Singh	0507907	Dr. Praveen Aghamkar	THIRD-ORDER NONLINEAR OPTICAL EFFECT IN DIRECT GAP SEMICONDUCTORS	03.07.2008
5.	Sh. Raj Kumar	Sh. Rameshwar Datt	0507903	Dr. Devendra Mohan and Dr. A.K. Aggarwal of Delhi	INVESTIGATIVE STUDIES OF PHASE OBJECTS IN LASER SCHLIEREN DIFFRACTION INTERFEROMETRY AND DEVELOPMENT OF MACHINE READABLE FEATURES IN SECURITY HOLOGRAMS	10.05.2008
6.	Sh. Ved Parkash	Sh. Diwan Singh	0407901	Prof. Nawal Kishore and Dr. H.N. Dutta of Delhi	CLIMATE CHANGE OVER THE SCHIRMACHER REGION, EAST ANTARCTICA	08.12.2008
7.	Ms. Meenakshi Sharma	Sh. B. D. Sharma	0407903	Dr. Devendra Mohan	Development and Study of Laser Induced Photophysical Properties in Optical Materials	05.05.2009
8.	Ms. Sonam Rani	Sh. Ramesh Chand	0507904	Dr. (Mrs.) Sujata Sanghi	Structural, Optical and Electrical Properties of Mixed Oxide Glasses	26.06.2009
9.	Ms. Neetu	Sh. Azad Singh	0707903	Dr. (Mrs.) Sujata Sanghi	Structural Characterization and Impedance Spectroscopy of Heavy Metal Oxide Glasses	26.10.2009
10.	Mr. Surender	Sh. Vijay Singh	06-07-9-01	Prof. Nawal Kishore / Dr. Parveen Aghamkar	Synthesis and Characterization of Metal Oxide Nanocomposites Derived from Sol-Gel Technique	26.11.2009

11.	Ms. Sunita Sharma	Sh. Tek Ram Sharma	0507905	Dr. Devendra Mohan / Dr. S. K. Ghoshal	Study of Non-Linear Properties in Materials of the Optical Wave Guide	26.11.2009
12.	Mr. Madan Singh	Sh. Kantu Ram	0307901	Dr. Devendra Mohan / Prof. Kehar Singh	Investigation of Optical Data Security System; Some Architecture Algorithms	20.04.2010
13.	Ms. Anshu	Sh. Ved Pal	0507908	Dr. (Mrs.) Sujata Sanghi	CHARACTERIZATION OF OXIDE GLASSES BY : (A) UV-VIS-NIR, FTIR & EPR SPECTROSCOPIES; AND (B) DC & AC ELECTRICAL CONDUCTIVITY	24.08.2010
14.	Mr. Umesh Gupta	Sh. Om Prakash Gupta	03-07-9-05	Prof. Devendra Mohan / Dr. S. K. Ghoshal	Monte Carlo Study of Alloys & High Temperature Superconductors and Laser Induced Transitions in Sol-Gel Based Materials	28.10.2010
15.	Mr. Karan Singh Gill	Ram Phal Singh	03-07-9-03	Dr. Devendra Mohan / Dr. Sib Krishna Ghoshal	Study of Optical and Mechanical Properties of Laser Dyes-Doped Polymers, Bcc Metals and Layered Superconductors	02.12.2010
16.	Mr. Mahender Singh Sheoran	Sh. Ram Dhan	03-07-9-04	Prof. Nawal Kishore/ Dr. A. S. Maan	Investigation of electronic and Optical Properties of some Modified Amorphous Semiconductors	07.12.2010
17.	Mr. Ram Saran	Sh. Ajmer Singh	06-07-9-03	Prof. Nawal Kishore/ Dr. S. K. Chakarvarti	<i>Radon Estimation and Mitigation Strategies</i>	30.08.2011
18.	Mr. Inder Pal	Sh. Dayanand	0707905	Dr. Ashish Agarwal	<i>Spectroscopic Properties and Structure of Rare Earth/Transition Metal Doped Glasses</i>	29.12.2011
19.	Mr. Sunil Kumar Rohila	Sh. Omparkash Rohilla	06-07-9-02	Dr. Parveen Aghamkar	<i>Coprecipitative Synthesis and Characterization of Nano Composites of Metal Oxides</i>	31.05.2012
20.	Mr. Navneet Singh	Sh. Joginder Singh	0707906	Dr. Ashish Agarwal	<i>Sol-Gel Synthesis and Characterization of Nanocrystalline Materials</i>	30.07.2012
21.	Mr. Sanjay	Sh. Bhim Singh	0507901	Prof. Nawal Kishore	<i>Investigation of Structural, Optical and Transport Properties of Synthesized Oxide and Non-oxide Glasses containing Transition Metal Ions</i>	23.08.2012
22.	Mr. Rajesh Punia	Sh. Hawa Singh	0707901	Prof. Nawal Kishore/ Dr. R. S. Kundu	<i>Study of Electronic Transport Properties of Some Modified Semiconductors</i>	15.03.2013
23.	Ms. Reetu	Sh. Mehar Singh	0907904	Dr.(Mrs.) Sujata Sanghi / Dr. Ashish Agarwal	<i>Structural, Dielectric and Magnetic Properties of Doped Multiferroic Ceramics</i>	23.04.2013

24.	Ms. Purnima	Sh. Naresh Kumar	0907902	Prof. Devendra Mohan	Study of Optical Limiting Properties in Nonlinear Absorbing Chromophores	06.06.2013
25	Ms. Divya Jyoti	Sh. Mohan Lal	11079004	Prof. Devendra Mohan/ Dr. Rakesh Dhar	Dye Sensitized Solar Cells Based on Mesoporous Oxide Electrodes	29.10.2013
26.	Mr. Vijender Singh	Sh. Mahavir Singh	0707907	Dr.Praveen Aghamkar	Synthesis and Characterization of Some Polymers and Study of third Order Non Linear Optical Phenomena	23.12.2013
27.	Ms. Dheeraj Sharma	Sh. R.C. Sharma	0507906	Prof. Devendra Mohan	Optical Wave Mixing in Photo- refractive Crystals	31.03.2014
28	Ms. Ashima	Sh. Sher Singh	0907903	Dr. (Mrs.) Sujata Sanghi	Synthesis and Characterization of Mixed Ferrites	21.05.2014
29	Ms. Monica	Sh. Ramphal	11079001	Dr. Neetu Ahlawat/ Dr. (Mrs.) Sujata Sanghi	Structural Characterization and Dielectric Properties of Lead Free Ceramics	21.05.2014
30	Mr. Jaipal Singh	Sh. Sujinder Singh	0707902	Prof. Nawal Kishore/ Dr. R.S. Kundu	Synthesis and Characterization of Some Oxide/ Chalcogenide Glasses	10.07.2014
31	Mr. Paramjeet	Sh. Ram Chander	0707904	Dr. Ashish Aggarwal	Preparation and Investigation of Structure & Electrical Properties of Nanostructured Materials	10.07.2014
32	Ms. Sunita Rani	Sh. Bharat Singh	11079005	Dr. Devendra Mohan / Prof. Nawal Kishore	Study of Optical Second and Third Harmonic Generation from Non-Centro Symmetric Chalcogenide Materials.	13.10.2014
33	Ms. Saroj Rani	Sh. Jagdish Chander	12079009	Dr. Sujata Sanghi/ Dr. Neetu Ahlawat	Investigation of Structure and Dielectric properties of Bi <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> based Glasses	27.07.2015
34	Ms. Deepika	Sh. Dharamvir	12079002	Dr. Rakesh Dhar	Synthesis of Semiconductor Quantum Dots and Study of their Optical/Electrical Properties	10.08.2015
35	Ms. Asha	Sh. Raj Singh	10079001	Dr. Sneha Lata Goyal/ Prof. Nawal Kishore	Synthesis and Characterization of Doped and Undoped Conducting Polymers	18.08.2015

36	Ms. Meenakshi	Sh. Rampal	12079001	Dr. R.S. Kundu/ Dr. Rajesh Punia	Synthesis and Characterization of Bismuth Based Oxide Glasses	19.11.2015
37	Ms. Rajni Bala	Sh. Moti Singh	0907905	Dr. Ashish Aggarwal	Structural, Electrical and Nonlinear Optical Properties of Heavy Metal Oxide Glasses	10.12.2015
38	Ms. Priyanka	Sh. Ramesh Chander	12079010	Dr. Ashish Aggarwal/Dr. Neetu Ahlawat	Crystal Structure Dielectric and Magnetic Properties of Modified BiFeO <sub>3</sub> Ceramics	14.03.2016
39	Ms. Smriti Sharma	Sh. Satyapal Sharma	12079003	Dr. Sneh Lata Goyal/ Prof. Nawal Kishore	Study of Structural, Thermal and Electrical Properties of Conducting Polymers	15.03.2016
40	Mr. Balvinder Singh	Sh. Suraj Bhan	12079012	Prof. Nawal Kishore/ Dr. V.K. Garg	Baseline Radioactivity (Natural and Fallout) in Different Environmental Matrices within 30-Km Radius around Proposed Nuclear Power Project, Gorakhpur	15.03.2016
41	Mr. Sunil Dhankhar	Sh. Ramkishan	11079003	Prof. Nawal Kishore/ Dr.R.S. Kundu	Study of Electronic Properties of Heavy Metal Oxide Based Materials	15.03.2016
42	Ms. Sarita Sharma	Sh. Naresh Kumar	12079008	Dr. Nawal Kishore/ Dr. R.S. Kundu	Synthesis and Characterization of ZnO based Nanomaterials	27.01.2017
43	Ms. Kirti	Sh. Sudarshan Kumar Nanda	12079006	Dr. R.S. Kundu/ Dr. Nawal Kishore	Synthesis and Characterization of Rare Earth Doped Oxide glasses	27.01.2017
44	Ms. Neelam	Sh. Rajender Prasad	13079001	Dr. Nawal Kishore/ Dr. R.M.Mehra	Study of Structural, Electrical and Optical Properties of as-Prepared and Ion-Irradiated ZnO Based Thin Films.	09.08.2017
45	Ms. Manisha	Sh. Ramesh Kumar	13079002	Dr. Sujata Sanghi	Crystal Structure Refinement, Dielectirc and Magnetic Properties of Rare Earth/Transition Metal Doped BiFeO <sub>3</sub>	22.11.2017
46	Ms. Rekha Kumari	Sh. Kulvir Singh	12079011	Dr. Neetu Ahlawat / Dr. Ashish Agarwal	Synthesis and Characterization of Ferroelectric/ Ferromagnetic Ceramics	22.11.2017
47	Mr. Anil Kumar	Sh. Tara Chand	11079002	Dr. Devendra Mohan/ Dr. A.K. Gupta	Study of Nonlinear Optical Switching Properties of Dye-doped Organic/Inorganic Materials	16.02.2018

48	Ms. Kavita	Sh. Om Parkash	13079005	Dr. Ashish Agarwal	Rietveld Refinement and Dielectric Properties of Modified Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> Ceramics	04.04.2018
49	Ms. Preeti	Sh. Krishan Sharma	13079007	Dr. Rajesh Punia / Dr. Neetu Ahlawat	Synthesis and Characterization of Lead Free Multiferroics	29.08.2018
50	Mr. Karmvir Singh	Sh. Hoshiar Singh	12079005	Dr. Rakesh Dhar	Synthesis of Metal Oxide Thin Films and Study of their Optical/ Electrical Properties	03.08.2018
51	Mr. Sunil Kumar	Sh. Atma Ram	12079013	Dr. Ajay Shankar / Dr. Nawal Kishore	Investigation of Laser Induced Damage Threshold on Multilayer oxide Thin Film	03.08.2018
52	Ms. Bulkesh	Sh. Jora Singh	13079006	Dr. Devendra Mohan	Fabrication of Dye Sensitized Solar Cell and its Characterization for Better Performance	29.08.2018
53	Ms. Suman Rani	Sh. Narayan Singh	13079003	Dr. Neetu Ahlawat / Dr. Rajesh Punia	Study of Structure and Electrical Characterization of High Dielectric Ceramics	18.02.2019
54	Ms. Kanta	Sh. Ranbir Singh	14079002	Dr. Neetu Ahlawat/ Dr.R.S.Kundu	Synthesis and Characterization of Modified BaTiO <sub>3</sub> Multiferroics	05.04.2019
55	Ms. Babita Bhall	Sh. Ravinder Singh Bhall	12079014	Dr. Rakesh Dhar/ Dr. C.P. Singh	Study of Acoustic Parameters in Forensic speaker Identification in terms of Probability Scale and its statistical Correlation	27.03.2019
56	Ms. Tanvi Bhasin	Sh. Rajesh Kumar Bhasin	16079006	Dr. Ashish Agarwal	Investigation of crystal structure, dielectric and magnetic properties of ZnFe <sub>2</sub> O <sub>4</sub> and Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> based multiferroic composites	18.08.2020
57	Ms. Sunita Rani	Sh. Jagdish Chander	14079003	Dr. R.S. Kundu / Dr. Neetu Ahlawat	Structural Optical and Electrical Characterization of Tellurite Based Glasses	18.08.2020
58	Mr. Joginder Singh	Sh. Jorawar Singh	16079014	Dr. Ashish Agarwal	Study of crystal structure, dielectric and magnetic properties of holmium doped BiFeO <sub>3</sub> based multiferroics	09.09.2020
59	Mr. Amitava Ghosh	Sh. Amal Kumar Ghosh	16079008	Dr. Devendra Mohan	Fabrication Characterization of Aspheric and freeform optics	30.10.2020
60	Ms. Sandhaya	Sh. Mahender Singh	14079004	Dr. Sujata Sanghi	Investigation of Nb and Mn doping in modified BiFeO <sub>3</sub> multiferroics	24.12.2020
61	Mr. Naresh	Sh. Ram Kumar	14079010	Dr. Rakesh Dhar / Dr. Ajit Kumar Mahapatro	Synthesis and Characterization of Metal Oxide Nanowires.	27.03.2023
62	Ms. Pinki	Sh. Neer Singh	190070090010	Prof. Rakesh Dhar/ Prof. Atul Thakur, Amity University, Gurgaon, Haryana	Removal of Heavy Metals in Waste Water Using Ni-Zn Nanoferrites	28.06.2023