

M.Sc dissertations for 2011-12

<u>S.No.</u>	<u>Name</u>	<u>Topic of Dissertation</u>	<u>Supervisor</u>
1.	Avirup De	Non Linear Dirac Equation for Bose-Einstein Condensate in External Magnetic Field	Prof. Patrick Das Gupta
2.	Subrata Mondal	Synthesis and Characterization of Gold and Silver Nanoparticles	Dr. Shyama Rath
3.	Pawan Kumar Singh	Hall Thrusters in Plasma	Prof. Avinash Khare
4.	Priyanka Singh	Gravitational Radiation	Prof. Patrick Das Gupta
5.	Gajendra Singh	Study of Precession of Perihelion of Mercury and PPN-Formalism in Relation With $G_{mv} = KT^{mv}$	Prof. Daksh Lohiya
6.	Bharatiya Tiwari	Gel-Derived $SiO_2 - CaO - Na_2O - P_2O_5$	Dr. S. Murugavel
7.	Baltez Singh	Preparation Magnetic and Dielectric Study Of Cobalt Ferrite Nanocomposite	Prof. S. Annapoorni Dr. Amarjeet Kaur
8.	Apoorva Pandey	Ion Thruster Accelerator Grids	Dr. Avinash Khare
9.	Ngangbam Rajesh Singh	ZnO Synthesis by Electro-Exploding Method and its Characterisation	Prof. S. Annapoorni
10.	Prakash Raut	Deposition and Characterisation of Graphene and other Related Carbon films	Dr. Amarjeet Kaur
11.	Sandeep Kumar	Study of Cosmological Constant in Accelerated Universe	Prof. Patrick Das Gupta
12.	Santosh Adhikari	Dynamics of a Carbon Atom in Different Layers of Graphite	Dr. Poonam Silotia
13.	Anupam Bhardwaj	Studies on Super massive Black Holes	Prof. Patrick Das Gupta
14.	Sonia	Synthesis and Characterization of Graphene	Dr. Ajit Mahapatro
15.	Shivam Arora	Data Simulation Work in Proton Computer Tomography	Dr. Md. Naimuddin
16.	Preeti Shukla	Magnetp Coulomb Effect in Carbon –	Dr. Nivedita Deo

Nanotube Quantum Dot Filled with
Maganetic Nanoparticles

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| 17. | Shruti Srivastava | Spectroscopic Ellipsometric Studies of Semiconductor Thin Films | Dr. Shyama Rath |
| 18. | Kamal Raj Joshi | Growth and Characterization of Nanoparticles by High Energy Ball Milling | Prof. R.P. Tandon |
| 19. | Rabindra Bhattarai | Probing Fractionally Charged Domain Wall In Topologically Protected Helical Edge States | Dr. Sourin Das |
| 20. | Shilpi Khurana | Study of Chaos for Sprott Circuits | Dr. Amita Chandra |
| 21. | Shalini Dayal | Synthesis and Characterization of Piezoelectric Ceramics | Dr. Binay Kumar |
| 22. | Suwendu Goswami | Preparation and Characterization of Li_xRdPO_4 | Dr. S. Murugavel |
| 23. | Aastha Goel | HRP Biosensing on Sputtered Tin Oxide Matrix | Prof. Vinay Gupta |
| 24. | Kritika Anand | Thin Film Preparation using Thermal Evaporation and Characterization | Prof. R.P. Tandon |
| 25. | Ravi Chandra | Ion Transport Mechanism in “Oxide Glasses” and its Preparation and Characterization | Dr. S. Murugavel |
| 26. | Komal Jain | Preparation and Characterisation of “Organic Photovoltaic Cells” | Prof. R.P. Tandon |
| 27. | Nemjel Choudhary | Preparation and Characterization of “Bio active Glasses” | Dr. S. Murugavel |
| 28. | Alka Sharma | Preparation and Characterization of “Thermoelectric Materials” | Prof. R.P. Tandon |
| 29. | Sonika Gahlawat | Thin Films by “Magnetron Sputtering” | Prof. R.P. Tandon |
| 30. | Nancy Narang | Preparation and Characterization of Ferroelectric and Ferromagnetic Ceramics | Prof. K. Sreenivas |
| 31. | Atul Kumar | Metal Doped ZnO thin Film for uv Photodetector | Prof. Vinay Gupta |
| 32. | Neha | Development of Semiconductor Thin Film Transistor | Prof. Vinay Gupta |

33.	Avneet Singh	Integration of Plasmonics for Metal Oxide UV-Photo Detector	Prof. Vinay Gupta
34.	Gurpreet Kaur Chahal	Development of Thin Film for SAW Devices	Prof. Vinay Gupta
35.	Priyanka Singh Tomar	X-ray Diffraction Analysis	Prof. K. Sreenivas
36.	Anshu	Polarization Measurements in Integrated System	Dr. Suresh Kumar
37.	Sukirti	SnO ₂ Based Thin Film Gas Sensors	Prof. Vinay Gupta
38.	Rahul Yadav	LiFe Time Measurement of Isomers State	Dr. Suresh Kumar
39.	Jyoti Sharma	Assignment of Spin & Parity in Excited Nuclei	Dr. Suresh Kumar
40.	Ghyanander Singh	Galvanostatically Deposited Polypyrrole For Super Capacitor Applications	Dr. S.A. Hashmi
41.	Neeraj Kumar		Dr. Samit Kumar Mandal
42.	Neha Batra	Studies on Electrical Double Layer Supercapacitors with MWCNTs/ activated Carbon Electrodes and Polymer Electrolyte	Dr. S.A. Hashmi
43.	Adil Amin	Some Aspects of Quantum Field Theory in Curved Space Time	Prof. Daksh Lohiya
44.	Deepti	Poly-3 Methyl Thiophene based solid State Supercapacitor with Polymer Electrolyte	Dr. S.A. Hashmi
45.	Rahul Aggarwal	Phase Space Analysis of Certain Classes of Dark Energy Models (like quintessence H-Essence, Tachyons)	Dr. Sourav Sur
46	Neha Sarin	Growth and Characterization of ZnO and ZnO doped Nanorods	Binay Kumar
47.	Naini Bajaj	Phase Change Memory Materials	S Murugvel
48.	Abhishek Parida	Unified Dark Matter-Energy Models with canonical scalar fields	SSarkar
49	Swati Kaushik Vedeshwar	Growth and Characterization of Bismuth Iodide thin films	A G

