

M.Sc. Project Work (PH-9252)

Completed Projects

(Batch-wise)

(2011 onwards)

S. No.	Batch	Registration no.	Name of student	Title	Supervisor
M.Sc. 2011-13					
1	2011-13	116701	Meghna	Measurement of Dielectric properties of commercially available soya oil at 9.6 GHz	Dr. K.S. Maan
2	2011-13	116702	Sheetal Pathania	Investigation of Pulse-height of gamma ray spectrum with multichannel analyzer (MCA)	Dr. S.S. Ghumman
3	2011-13	116703	Rupinder Kaur	Characteristic curve and dead time measurement of Geiger Muller tube	Dr. S.S. Ghumman
4	2011-13	116704	Manisha Rajpoot	Measurement of Absorption coefficient of some metallic targets using ^{90}Sr Beta emitter	Dr. A.S. Dhaliwal
5	2011-13	116705	Shilpa Rani	Measurement of attenuation coefficient of pulses using advanced two media method	Dr. K.S. Kahlon
6	2011-13	116706	Rupinderjit Kaur	Measurement of complex permittivity of given PCB substrate at 9.8 GHz	Dr. K.S. Maan
7	2011-13	116707	Sachin Kumar	Review of lattice Dynamical study of Cs_2HgCl_4	Dr. M.M. Sinha
8	2011-13	116708	Surbhi Verma	Experimental evidence for effect of Magnetic field on water	Dr. S.S. Verma
9	2011-13	116711	Paramjit Singh	Measurement of attenuation coefficient of some commonly used Polymers	Dr. S.S. Ghumman
10	2011-13	116710	Sukhpal Singh	Review of lattice Dynamics of $\text{Sr}_2\text{ZnGe}_2\text{O}_7$	Dr. M.M. Sinha

M.Sc. 2012-14					
11	2012-14	127102	Swarnjet Kaur	Indoor Radon measurement at different locations in SLIET	Dr. K.S. Kahlon
12	2012-14	127103	Surinderjit Saini	Calculation of bond length of Oxygen and Nitrogen molecules	Dr. S.S. Verma
13	2012-14	127104	Gurjeet Singh	Measurement of Complex Permittivity of Ethanol in the Frequency range from 100 MHz to 14 GHz	Dr. K.S. Maan
14	2012-14	127106	Parminder Kaur Preety	Bond length measurement of CCl ₄ and C ₂ Cl ₄ by Laser Raman Spectrometer	Dr. M.M. Sinha
15	2012-14	127107	Shakun Pandey	Measurement of Characteristics and Applications of GM Counter	Dr. P. Kaur
16	2012-14	127108	Preeti Ghawri	Hydrogen Sensing Properties of Palladium Thin film and Palladium Nanoparticles	Ms. K. Aggarwal
17	2012-14	127109	Kuldeep Kaur	Measurement of Radon Concentration in water using RAD7 detector	Dr. A.S. Dhaliwal
M.Sc. 2013-15					
18	2013-15	137101	Lovedeep Singh	Multiple Scattering Effects of GAMMA Rays in some Titanium compounds	Dr. S.S. Ghumman
19	2013-15	137102	Navpreet Kaur	Measurement of Radon Concentration in soil using RAD7 detector	Dr. A.S. Dhaliwal
20	2013-15	137103	Pooja Rani	Measurement of Parameters of NaI(Tl) Detector and Linear Attenuation coefficient	Dr. P. Kaur

				of some compounds using Advanced Two Media (ATM) method	
21	2013-15	137104	Manpreet kaur	Ultrasonic Studies of some Edible Oils	Dr. K.S. Maan
M.Sc. 2014-16					
22	2014-16	SL/14/2701	Jagdeep Singh	Complex Permittivity of Sodium Chloride Solutions from 10 to 3000 MHz	Dr. K.S. Maan
23	2014-16	SL/14/2702	Prabhjot Kaur	Hydrogen Sensing Properties of Palladium and Palladium Alloy Thin Films	Ms. K. Aggarwal
24	2014-16	SL/14/2704	Sandeep	Optical Properties of Magneto-Plasmonic Nanoparticles	Dr. S.S. Verma
25	2014-16	SL/14/2705	Ramandeep Kaur	Studies of Characteristics of Electron Gun System and Measurements	Dr. K.S. Kahlon
M.Sc. 2015-17					
26	2015-17	SL/15/2701	Durgesh Kumar Ojha	Working Characteristics of Energy Gun System having Energy 100 eV-10 KeV	Dr. A.S. Dhaliwal
27	2015-17	SL/15/2702	Maanwinder Partap Singh	Study of Variation in Attenuation Coefficient of Superconductor material with Temperature	Dr. K.S. Kahlon
28	2015-17	SL/15/2703	Smruti Medha Mishra	Study of Palladium Nanocrystalline Films as Hydrogen Sensor	Ms. K. Aggarwal
29	2015-17	SL/15/2705	Rohit Kumar	Measurement of Radon Concentration at various Location of SLIET Longowal	Dr. K.S. Kahlon
30	2015-17	SL/15/2707	Harshdeep Kaur	Measurement of Hall Effect and other	Dr. A.S. Dhaliwal

				Physical Parameters of different Compositions of Pb-Sn alloys	
31	2015-17	SL/15/2708	Tehmeena	Temperature Dependent Complex Permittivity of Glycerol at some Dielectric Heating Frequencies	Dr. K.S. Maan
32	2015-17	SL/15/2709	Arshdeep Singh	Multiplicities in Proton-Proton Collisions at Different Centre of Mass using Pythia Event Generator	Dr. P. Kaur
33	2015-17	SL/15/2710	Shivani Bansal	Vibrational Properties of Magnesium Chalcogenide MgS	Dr. M.M. Sinha
34	2015-17	SL/15/2711	Kiranjit Kaur	Study of Lattice Dynamics of Silicon Carbide (SiC) in Cubic Phase	Dr. M.M. Sinha
35	2015-17	SL/15/2712	Bharti	Complex Permittivity of Equimolar Aqueous Solution of some Alkali metal Chlorides at 2.34 GHz and 25 ⁰ C	Dr. K.S. Maan
36	2015-17	SL/15/2713	Rupinderjeet Kaur	Detection of Adulteration in Mixed fuel using Non-destructive Testing Method Ultrasonic Interferometer	Dr. A.S. Dhaliwal (for Dr. S.S. Verma)
37	2015-17	SL/15/2714	Madhu Rani	Lattice Dynamics of Aluminium Nitride	Dr. M.M. Sinha
38	2015-17	SL/15/2715	Shallu Garg	Studies of Hall Effect and Various Physical Parameters of Metallic Materials	Dr. K.S. Kahlon
39	2015-17	SL/15/2716	Nishant Jhandai	Tunability of LSPR of some Liquid Plasmonic Nanoparticles	Dr. A.S. Dhaliwal (for Dr. S.S. Verma)

40	2015-17	SL/15/2717	Vikas Dhanda	Plasmonic Properties of tunability of Magnetoplasmonic Nanoparticles	Dr. A.S. Dhaliwal (for Dr. S.S. Verma)
41	2015-17	SL/15/2718	Jagwinder Singh	Measurement of Attenuation Coefficient of Lead Material	Dr. S.S. Ghumman
42	2015-17	SL/15/2719	Surendra Kumar	Study of Response time for Palladium Thin Film and Nanocrystalline Film as Hydrogen Sensor	Ms. K. Aggarwal
43	2015-17	SL/15/2720	Ram Sharma	Measurement of Attenuation Coefficient of Tungsten Material	Dr. S.S. Ghumman
44	2015-17	SL/15/2721	Smriti	Higgs to $\gamma\gamma$ Process Simulation for Proton-Proton Collisions using Pythia	Dr. P. Kaur
M.Sc. 2016-18					
45	2016-18	1650003	Suvigya Kaushik	Phonon Dispersion of copper iodide	Dr. M.M. Sinha
46	2016-18	1650007	Abhilash Sharma	Vibrational Properties Cadmium Selenide CdSe	Dr. M.M. Sinha
47	2016-18	1650008	Deepali Jagga	Measurement of Complex Primitively of Chilli Powder at 5.8 GHz	Dr. P. Kaur
48	2016-18	1650009	Ajay kumar	Electrochemical Synthesis and Characterization of Polyaniline for Supercapacitor	Dr. K.S. Kahlon
49	2016-18	1650010	Animesh Mondal	Stimulation of $w +$ Jets process in Proton Proton collision is using Pathia and Fast Jet	Dr. P. Kaur
50	2016-18	1650011	Ashish soni	Effect of Magnetic Field on the Physical Property of Tap Water	Dr. S.S. Verma

51	2016-18	1650017	Rahul	Measurement of Radon Concentration in Soil using RAD7 detector	Dr. K.S. Kahlon
52	2016-18	1650018	Anjali sharma	Dielectric Characterization of Tap Water Using Micro and Radio Waves	Dr. K.S. Maan
53	2016-18	1650020	Divya Rawat	Characterization of Edible Using Ultrasonic Interferometer	Dr. S.S. Ghumman
54	2016-18	1650026	Isha	Synthesis and Characterization of Silver Nanoparticles Prepared by Using Azadirachta Indica Leaf Extract	Dr. A.S. Dhaliwal
55	2016-18	1650033	Peeyush Gupta	Catalytic Degradation of Methylene Blue Dye by Using Biosynthesized Silver Nanoparticle	Dr. A.S. Dhaliwal
56	2016-18	1650056	Karishma Sharma	Studying the Effect of Polarization on Scattering Intensity by Nanoparticle	Dr. S.S. Verma
57	2016-18	1650047	Pankaj Dhiman	Measurement of Radon Concentration at Various Location of SLIET Longowal	Dr. K.S. Kahlon
58	2016-18	1650048	Priyanka kansal	Dielectricity Property of Powder at 2.45 GHz	Dr. K.S. Maan
59	2016-18	1650049	Sukhpal Kaur	Lactic Dynamics of Boron Nitride	Dr. M.M. Sinha
60	2016-18	1650050	Damanpreet Kaur	Dielectric Characterization of Amylophetin at 2.4 GHz	Dr. P. Kaur

61	2016-18	1650051	Manpreet kaur	Dielectric Property of Coffee Seeds at 2.4 GHz	Dr. K.S. Maan
62	2016-18	1650052	Mohd Shehbaz Farooqi	Faraday Effect Measurement of Verdet Constant	Dr. S.S. Ghumman
63	2016-18	1650053	Lovepreet Singh	Electrochemical Synthesis of poly aniline and its electrochemical performance	Dr. A.S. Dhaliwal
65	2016-18	1650054	Heena Behl	Application of Modelling Analysis of Temperature Dependent Water Absorption in Chickpeas	Dr. S.S. Ghumman
M.Sc. 2017-19					
66	2017-19	1750401	Sudhakar	Study of Hydrogen Sensing Properties of Palladium Nano Crystalline Film	Ms. K. Aggarwal
67	2017-19	1750403	Ahsaan Ali	Vibration Properties of Aluminium Arsenide AlAs	Dr. M.M. Sinha
68	2017-19	1750404	Pooja	Faraday Effect of Measurement of Verdet Constant for Some Materials	Dr. S.S. Verma
69	2017-19	1750405	Chandra Prakash	Influence of Aluminium Substitution on Structural and Electrical Property of Barium Hexaferrite	Dr. S.S. Ghumman
70	2017-19	1750406	Kulbhushan Mishra	Study of Hydrogen Sensing Properties of Pd-C Thin Film	Ms. K. Aggarwal
71	2017-19	1750407	Nikhitha Rajan	Dielectric Constant of Mixture of Benzene and Acetone at 7.1 GHz	Dr. K.S. Maan
72	2017-19	1750409	Rupinderjeet Kaur	To Study Effect of Temperature on Crystalline Structure of	Dr. A.S. Dhaliwal

				Manganese Oxide using X-ray Diffractometer System	
73	2017-19	1750411	Mahak rani	Measurement of Temperature Dependent Dielectric Properties of Commercially Available Soyabean Oil at 9.6 GHz	Dr. K.S. Maan
74	2017-19	1750412	Abhinav Kumar Shukla	Structure Dielectric Studies of Cu Substituted Barium Ferrite	Dr. S.S. Ghumman
75	2017-19	1750413	Suman Debnath	Dielectric Constant of Mixture of Acetone in Ethanol at 7.1 GHz	Dr. K.S. Maan
76	2017-19	1750414	Maninder Kaur	Study of Hydrogen Sensing Properties of Palladium Thin Films	Ms. K. Aggarwal
77	2017-19	1750415	Himanshi	To Study the Behavior of Crystallite Size of Zirconium Oxide with Temperature using X ray Diffractometer System	Dr. A.S. Dhaliwal
78	2017-19	1750416	Manisha sharma	Study of Lattice Dynamics of Gallium Arsenide (GaAs) in Cubic Phase	Dr. M.M. Sinha
79	2017-19	1750417	Veerpal kaur	Measurement of Ultrasound Velocity of TRITICUM AESTVUM with Age using Ultrasonic Interferometer	Dr. K.S. Kahlon
80	2017-19	1750418	Sukhjeet Kaur Sidhu	Optical properties tunability of gold and silver hollow nanospheres	Dr. S.S. Verma
81	2017-19	1750419	Karandeep Singh	Measurement of RADON concentration	Dr. A.S. Dhaliwal

				in soil using RAD-7 Detector	
82	2017-19	1750420	Mandeep Kaur	Study of Structural and Dielectric Properties of Strontium Substituted Barium Ferrite	Dr. S.S. Ghumman
83	2017-19	1750421	Rashmi Jain	Variation in Attenuation Coefficient of Different Material with Temperature	Dr. K.S. Kahlon
84	2017-19	1750422	Tarishi	Vibrational Properties of Magnesium Telluride MgTe	Dr. M.M. Sinha
M.Sc. 2018-20					
85	2018-20	1850403	Madan Lal Sharma	Multiferroic properties of Bi _{0.9} Sm _{0.1} Fe _{1-x} CoxO ₃ solid solutions	Ms. K. Aggarwal
86	2018-20	1850404	Arun Saini	Synthesis and analysis methods to investigate electrical transport properties of M-type hexagonal ferrites and Sn-In substituted strontium hexaferrite – Literature Survey	Dr. S.S. Ghumman
87	2018-20	1850405	Farheen Farooqui	Electronic properties of Calcium Chalcogenides in rock salt phase: a first principle-based study	Dr. M. M. Sinha
88	2018-20	1850407	Nikhil	Oxyfluoride glasses as shielding material-A Review	Dr. K.S. Kahlon
89	2018-20	1850408	Ayushi Tyagi	Applications of Gold nanoparticles as nano sources of heat: A Review	Dr. S.S. Verma
90	2018-20	1850410	Manoj kumar B	Fabrication of TiO ₂ based Dye Sensitized Solar Cell	Dr. A S Dhaliwal
91	2018-20	1850412	Manpreet Kaur	A Study of Dielectric	Dr. P. Kaur

				Properties of Soil as a Function of Moisture Content	
92	2018-20	1850418	Pralekh Dubey	Investigation of Magnetoelectric Effect in Y-Type Hexaferrite -Literature Review	Dr. S. S. Ghumman
93	2018-20	1850423	Dharmaraj. R	Calculation of Structure Functions of Protons using Electron Proton Scattering Cross Sections with HERA	Dr. P. Kaur
M.Sc. 2019-21					
94	2019-21	1950401	Kishan kumar	Application of nuclear magnetic resonance (NMR) technique in purity check of food item: A REVIEW	Dr. S.S. Verma
95	2019-21	1950402	Purushotam	CALCULATED VALUES OF JUMP FACTORS AND JUMP RATIOS OF TERBIUM COMPOUNDS AT EDGES IN K SHELL AND LI, LII, LIII AND MI, MII, MIII, MIV, MV SUBSHELLS	Dr. K.S. Kahlon
96	2019-21	1950403	Bharat Bhardwaj	Electronic properties of Alkaline Earth Chalcogenides: a review	Dr. M. M Sinha
97	2019-21	1950408	Archana Bawari	Recent progress in the synthesis of hafnium-based composites and their application	Dr. A S Dhaliwal
98	2019-21	1950409	Bandla Siva Rama Koteswara Rao	A Review on Dielectric Properties of Binary Polar Liquids containing water as one of the	Dr. K. S. Mann

				components at Radio and Microwave Frequencies	
99	2019-21	1950410	Upasna Gour	Review on dielectric properties of some edible oils at microwave frequencies	Dr. P. Kaur
100	2019-21	1950414	Likhina Lanson	Study of multiferroic properties of samarium doped bismuth ferrite	Ms. K. Aggarwal
101	2019-21	1950420	Nidhi	Scientific and Technological Advancements in Materials' Characterization Techniques and Instrumentation: A Review	Dr. S.S. Ghumman
M.Sc. 2020-22					
102	2020-22	2050501	Gurjeet singh	Structural dielectric and electrical transport properties of Ni ⁺⁺ and Zr ⁺⁺ substituted y-type Barium hexaferrite	Dr. S.S. Ghumman
103	2020-22	2050502	Pruthwin	Absorption cross section of individual water hydrometer in the micro region using cavity perturbation technique	Dr. K.S. Maan
104	2020-22	2050504	Shruti	Structural and morphological studies of calcium doped Hafnia sintered at different temperature	Dr. A.S. Dhaliwal
105	2020-22	2050505	Bhavna R.K.	Studies on effective atomic number and electron densities of nanoparticles TiO ₂ , ZnO, PbZrO ₃ over energy range 3Mev-100Mev and z effect jump factors and z	Dr. K.S. Kahlon

				effect jump ratios over the range 1KeV-100eV	
106	2020-22	2050506	Shivam Pareek	Electronic structure of half HEUSLER ALLOYS A REVIEW	Dr. M.M. Sinha
107	2020-22	2050508	Natasha Garg	Measurement of dielectric properties of dimethyl sulfoxide and extraction of relaxation parameters in the frequency range from 10MHz to 14 GHz	Dr P. Kaur
108	2020-22	2050509	Narinder kaur	Magnetic susceptibility of various materials using quincke's method	Dr. S.S. Verma
109	2020-22	2050512	Kanika Verma	Measurement of dielectric properties of mustard seed cake in the frequency region of 10MHz to 3 GHz	Dr P. Kaur
110	2020-22	2050514	Yogesh Aggarwal	Fabrication of Gold BOWTIE nanostructure by using nanosphere lithography	Ms. K. Aggarwal
111	2020-22	2050515	Hemraj Jangid	Study on multiferroic properties of smFeO ₃ -PbTiO ₃	Ms. K. Aggarwal
M.Sc. 2021-23					
112	2021-23	2150351	Archna Maurya	Enhancement in photocatalytic activity in SrTiO ₃ with doping of MgO particles	Dr. S.S. Ghumman
113	2021-23	2150352	Abir Dubey	Effect and temperature and heating time on the ultrasonic	Dr. M. M Sinha
114	2021-23	2150354	Anil Kumar Behera	Investigation of effective atomic number and electron density of Fe ₂ O ₄	Dr. K.S. Kahlon

115	2021-23	2150355	Bharat Yogi	Green synthesis and characterization of ZnO nanospheres calcinated at different temperatures using Eugenia cumin Leaf extract	Dr. A.S. Dhaliwal
116	2021-23	2150357	KG Vishal Srivaths	Mathematical formulism for efficiency determination using the sum-peak method	Dr P. Kaur
117	2021-23	2150360	Harini S. Rao	Detection of milk adulteration using ultrasonic measurements	Dr. S.S. Verma
118	2021-23	2150362	Koothodil Abhijith Augustin	Exploring the JWST PRIMER catalogue: An investigation of IR galaxies	Dr. S.S. Verma
119	2021-23	2150363	Manasi Kulkarni	Data Reduction for Globular Cluster NGC4147	Dr. J. Singh
120	2021-23	2150364	Monalisa	Structural Morphological and optical studies of MnO nanoparticles	Dr. A.S. Dhaliwal
121	2021-23	2150365	Aruinava Ghosh	Estimation of Compton scattering for radionuclides with two step cascade decay using sum peak efficiency	Dr. S.S. Ghumman
122	2021-23	2150366	Yogeesh N.	The study of interstellar dust polarization properties based on a whole sky polarization catalogue	Dr. M. M Sinha
123	2021-23	2150368	Pawan Kumar	Analysis of certain edible fungi using radio and microwave technology	Dr P. Kaur
124	2021-23	2150371	Jitendra Kumar Yadav	Optimization of the phase, stability of calcium doped zirconia by sintering at different temperatures	Dr. A.S. Dhaliwal

125	2021-23	2150372	Paras Drall	Effect of temperature and heating time on the ultrasonic waves in mustard oil	Dr. S.S. Verma
126	2021-23	2150373	Sapinder Singh	Synthesis and characterization of benzyl amine lead bromide perovskite micro discs	Ms. K. Aggarwal
127	2021-23	2150374	Gitanshu	Analysis of certain fruit juices in radio and microwave region	Dr P. Kaur
128	2021-23	2150375	Pardeep Kaur	To synthesize and characterization of Mn doped Benzyl amine lead bromide perovskite micro discs	Ms. K. Aggarwal
129	2021-23	2150376	Mansi	Synthesis and characterization of nano-composite based on reduced Graphene oxide decorated with silver nanoparticles	Dr. J. Singh
M.Sc. 2022-24					
130	2022-24	PGPHY2263001	Soumik Bhowmik	Nickel-Mediated Reduction Graphene Oxide to rGO: Synthesis, Characterization and its Electrochemical Behavior	Dr. Jagdeep Singh
131	2022-24	PGPHY2263002	Karan Singh Handa	Impact of Electron Beam Irradiation for Tailoring Properties of Graphene Oxide Film: A Comprehensive Investigation	Dr. A.S. Dhaliwal & Dr. Jagdeep Singh
132	2022-24	PGPHY2263003	Paritosh Shukla	Implementation of Various Algorithm using IBM's Qiskit	Dr. K.S. Kahlon

133	2022-24	PGPHY2263004	Abhishek Verma	Experimental Verification of Teleportation using IBM's Qiskit: A Study in Quantum Composer and Quantum Lab	Dr. S.S. Verma
134	2022-24	PGPHY2263005	Ajay Kumar Rundla	A Comprehensive Review on Dielectric Barrier Discharge (DBD)	Dr. S.S. Verma
135	2022-24	PGPHY2263006	Vivekanand Jakhar	Investigation of Electrical Transport Properties of MgO NPs doped SrTiO ₃ Ceramic	Dr. S.S. Ghumman
136	2022-24	PGPHY2263008	Ajay Kumawat	Analysis of Structural and Dielectric Properties of La Modified BZT Ceramic	Dr. Shubhpreet Kaur
137	2022-24	PGPHY2263012	Shalini Bhattacharjee	Physics of Neutrino Oscillations	Dr. S.S. Ghumman
138	2022-24	PGPHY2263014	Nikhil Kumar	First-Principles Investigation of Structural and Electronic Properties of SmMg and GdMg Alloys: A comparative Study	Dr. M.M. Sinha
139	2022-24	PGPHY2263016	Santanu Samanta	Characterization of 1.5" x 1.5" LaBr ₃ : Ce Detector and Experimental Verification of Compton Scattering	Dr. Shubhpreet Kaur