



**Department: Pure and Applied Physics**

**List of Programmes having Components of field**

Sr. No.	Programme Code	Programme Name	Academic Year
01.	M.Sc. (Physics)	Project Work (PT-405)	2018-2019



**Minutes of Meetings (MoM) of Board of Studies (BoS)**

**Academic Year : 2018-19**

**School : *School of Physical Sciences***

**Department : *Pure and Applied Physics***

**Date and Time : *December 12, 2016 - 11:30 AM***

**Venue : *Smart Class Room***

The scheduled meeting of member of Board of Studies (BoS) of Department of Pure and Applied Physics, School of Studies of Physical Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, was held to design and discuss the M. Sc. (Physics), scheme and syllabi.

The following members were present in the meeting:

1. Dr. R. P. Prajapati
2. Dr. M. N. Tripathi
3. Dr. R. K. Pandey
4. Dr. Parijat Thakur
5. Dr. H. S. Tewari
6. Prof. D. P. Ojha
7. Prof. P. K. Bajpai

The committee discussed and approved the scheme and syllabi.

Signature & Seal of HoD



Course  
Structure  
M.Sc.  
Physics  
Syllabus

Department of Pure and Applied Physics

Guru Ghasidas Vishwavidyalaya, Bilaspur-495 009 (C.G.)

Semester-I	Semester-II
<p><b>PT-101</b>-Mathematical Physics <b>PT-102</b>-Classical Mechanics <b>PT-103</b>- Quantum Mechanics-I <b>PT-104</b>-Basic Electronic Devices <b>PT-105</b>- Lab Course</p>	<p><b>PT-201</b>-Atomic and Molecular Physics <b>PT-202</b>- Nuclear and Particle Physics <b>PT-203</b>- Solid State Physics <b>PT-204</b>- Quantum Mechanics-II <b>PT-205</b>- Lab Course</p>
Semester-III	Semester-IV
<p><b>PT-301</b>- Statistical Mechanics <b>PT-302</b>-Introductory to Computational Physics <b>PT-303</b>- Electrodynamics <b>PT-304</b>-Specilization Material Science –I <b>PT-305</b>- Lab Course</p>	<p><b>PT-401</b>-Experimental Technique in Physics <b>PT-402</b>- Accelerator Physics <b>PT-403</b>-Molecular Physics and Group Theory <b>PT-404</b>- Specialization Material Science –II <b>PT-405</b>- Project Work</p>

विभागाध्यक्ष-प्रा.सि.सि.सि.  
शुद्ध एवं अनुसंधान-प्रयोग विभाग  
Dept. of Pure & Applied Physics  
गुरु घासीदास विश्वविद्यालय  
कोनी (छ.ग.), बिलासपुर (छ.ग.)

30-4-2019  
T. Choudhary  
S. K. Singh  
H. K. Singh  
S. K. Singh  
S. K. Singh  
S. K. Singh



## Students Undertaking Field Projects / Research Projects / Internships

Department : **Pure and Applied Physics**

Programme Name : **M.Sc. Physics**

Academic Year : **2018-19**

### List of students undertaking Field Projects/Projects / Internships

Sr. No.	Name of the Student	Title of the Project / Internship along with the Name of the Organization (where Project / Internship was carried out)	Link of Certificate
01.	Ajay Choudhary	Life Time Measurement Of Negative Parity Band In 75Br/GGV	
02.	Akash Chatargy	Influence Of Viscosity In Neutrino Magnetohydrodynamics Plasma/ GGV	
03.	Ankita Biswas	Synthesis And Characterization Of Fe Doped Invo4/ GGV	
04.	Ashish Lahre	Chracterrization And Photocatalytic Study Of Ba Moo4, GGV	
05.	Astha Yadaw	Simuation Of Perovsl=Kite Based Solar Sel For Solar Energy Harvesting / GGV	
06.	Badal Parida	Study Of Photovoltaike Double Perovkite Cs2AgInCL6, Cs2AgInBr6 And Cs2AgInCl3Br3 / GGV	
07.	Bramhanand Giri Goshwami	Effect Of Polarization Force And Chaged Gradient Force On Dust Acoustic Waves/ GGV	
08.	Chandan Kiumar Gupta	Synthesis And Characterisation Of La Dopped Bismuth Ferrite/ GGV	
09.	Chandrankumar Devangan	Life Time Measurement Of Yrast State Of 75Br Nucleus / GGV	



10.	Deenu Kumar Ghritahre	Synthesis And Characterization Of Pure Nickel Ferrite Based Sensor For LPG Detector/ GGv	
11.	Deepak Yadav	Study Of The Optical And Electrical Property Of Basno <sub>3</sub> with Help Of DFT/ GGv	
12.	Gajendra Singh	Electronic Roperty Of Boron Nitrite Nano Tube / GGv	
13.	Geetika Sahu	Characterization And Photocatalytioc Property Of Camoo <sub>4</sub> / GGv	
14.	Hemnand Khanda	Photocatalytic Activity Of A Turnnary Composite Rgo-WO <sub>3</sub> -Fevo <sub>4</sub> / GGv	
15.	Jaleshwar Sahu	Synthesis And Characterizayion Of Copper Sulphide Mn Metal Doped Nanoparticle/ GGv	
16.	Jyotirmay Sahu	Total Routhian Surface Calculation For 75Br And 77Se Nucleus/ GGv	
17.	Jyotsna Pal	Green Synthesis Of Starched Capped Cadmium Sulphide Nanoparticle / GGv	
18.	Kaiwalya Gupta	Theorytical Study Of Jeans Instability And Role Of Jeans Stability In White Dwarf/ GGv	
19.	Kshiteshwar Dehri	Thermal And Thermoelectric Behaviour Of (Bixsb <sub>1-X</sub> ) <sub>2</sub> Te <sub>3</sub> Quantum Well Structure/ GGv	
20.	Manisha Kundu	Synthesis And Characterization Of Topological Insulator Snbi <sub>2</sub> te <sub>4</sub> Single Crystal/ GGv	
21.	Meenal Gupta	Triclinic Monoclinic Phase Boundary Infe <sub>1</sub> -Xcrxvo <sub>4</sub> A XRD And Raman Sudy/ GGv	



22.	Mitu Chouhan	Synthesis And Characterization Of Metal Organic Frameworkbased Organic Inorganic Perovskite Hybride Multiferroick Material/ GGv	
23.	Motilal Dewangan	Large Scale Shell Modelcalculation For Ni Isotopes/ GGv	
24.	Nakul Prasad Sahu	Synthesis And Charecterization Of La <sub>0.7</sub> Sr <sub>0.3</sub> Mn <sub>0.75</sub> Fe <sub>0.25</sub> O <sub>3</sub> / GGv	
25.	Namita Kshatri	Millihertzqpo And Energy Dependent Variability Of The High Mass X-Ray Binary Lmcx-1/ GGv	
26.	Neeraj Jaiswal	Suynthesis And Characterization Of Chromium Doped Cobalt Ferrite/ GGv	
27.	Nitin Kumar Dewangan	Density Functional Study Of Single Walled Carbon Nanotube/ GGv	
28.	Pooja Tondon	Synthesis And Structural Property Of MN Doped Bifeo <sub>4</sub> / GGv	
29.	Prachi Tiwari	Synthesis And Characterization Of Ba <sup>2+</sup> Doped Cdtio <sub>3</sub> / GGv	
30.	Prakash Verma	Structural And Optical Property Of Sodium And Mangesium Co-Doped Zinc Oxide / GGv	
31.	Priya Dubey	Synthesis And Characterization Of Cu@Oseo <sub>3</sub> / GGv	
32.	Rekha Jaltare	Synthesis And Structural Property Of Ti Doped Bifeo <sub>3</sub> / GGv	
33.	Rinki Pradhan	Synthesis And Structural Property Of Calcium Doped Bifeo <sub>3</sub> / GGv	
34.	Roopal Badhe	First Principal DFT Based Study Of Non Polar Cdtio <sub>3</sub> perovskite Showing Ferroelectric Property/ GGv	



35.	Sagar Sahu	Energy Depend Variability Of The Low Mass Black Hole X-Ray Binary GX 339-4/ GGv	
36.	Saket Verma	Synthesis Of Rgo-Moo3 And Rgo-Feo4-Moo3 Composites And Application As Photocatalyst/ GGv	
37.	Sanand Kumar Pradhan	Synthesis And Charecterization Of Ca Doped Mg Ni Ferrite / GGv	
38.	Sanchyan Chaturvedi	A Study Of The Apperant Variation In The Transiter Timing Of The Exoplant WASP -12b/ GGv	
39.	Sanskriti Panday	To Study The Structural Phase Transition For Znse1-Xtex Alloys/ GGv	
40.	Sarika Dadsena	Study The Photocatalytic Property Of Gd Doped Srmoo4/ GGv	
41.	SK Mocacabbar Hussain	Synthesis And Characterization Of Topological Insulator Co3Sn2Se2/ GGv/	
42.	Sunil Kumar	Synthesis And Characterization Of La Doped Conbalt Ferrite Nanomaterial/ GGv	
43.	Swati Tiwari	Synthesis And Characterization Of Y2O2Ni2Se3/ GGv	
44.	Tulsi Marar	Elastic Constant Of Spinal Ferrite/ GGv	
45.	Tushar Servey	Synthesis And Structural Characterization Of La Doped Bifeo3 Mutiferroics Materials/ GGv	
46.	Upendra Nath	Low Temperature Synthesis And Characterization Of V Doped Batio3/ GGv	
47.	Utkalia Pallai	Inertial Confinement Fusion And	





		/Rayleigh Taylor Instability And Magnetised Plasma / GGv	
48.	V Antara	To Study The Photocatalytic Property Of Gadolinium Doped Calcium Molybdate/ GGv	
49.	Vaishali Narayana	Structural And Optical Property Of Al And K Co Doped ZnO Thin Film / GGv	
50.	Vandana Sahu	Synthesis And Characterization Of Gd Doped Lanthanum Strontium Manganite/ GGv	
51.	Vivek Kumar	Low Temperature Synthesis And Structural Characterization Of BaTiO <sub>3</sub> / GGv	
52.	Yamuna Patel	Synthesis And Characterization Of Lanthanum Doped Bismuth Ferrite/ GGv	
53.	Yasha Mishra	Fractal And Multifractal Analysis Of Al:ZnO Thin Film / GGv	
54.	Yogesh Dewangan	Photocatalytic Property Of Gadolinium Doped Barium Molybdate/ GGv	