



Department: Pure and Applied Physics

List of Programmes having Components of field

Sr. No.	Programme Code	Programme Name	Academic Year
01.	B.Sc. (Physics)	Dissertation/ Project work followed by seminar (PS/PHY/PD)	2021-2022

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विभागाध्यक्ष/H.O.D.
शुद्ध एवं अनुप्रयुक्त भौतिकी विभाग
Dept. of Pure & Applied Physics
गुरु घासीदास विश्वविद्यालय
Guru Ghasidas Vishwavidyalaya
बिलासपुर (छ.ग.)/Bilaspur (C.G.)



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

Academic Year : 2021-22

School : School of Physical Sciences

Department : Pure and Applied Physics

Date and Time : July 13, 2018 - 11:30 AM; July 18, 2018 - 5:00

Venue : Smart Class Room

The scheduled meetings of member of Board of Studies (BoS) of Department of Pure and Applied Physics, School of Studies of Physical Sciences, Guru Ghasidas Vishwavidyalaya, Bilaspur, were held to design and discuss the B. Sc. (Physics) Third year (V and VI Semesters), scheme and syllabi.

The following members were present in the meeting:

1. Prof. P K. Bajpai
2. Dr. H. S. Tewari
3. Prof. S. B. Kondawar (External Member)
4. Dr. M. N. Tripathi
5. Dr. P. Thakur
6. Dr. R. K. Pandey
7. Dr. T. G. Reddy
8. Dr. R. P. Prajapati
9. Dr. A. K. Gupta
10. Dr. M. P. Sharma
11. Dr. P. Das
12. Dr. T. Trivedi
13. Dr. S. P. Patel
14. Prof. R. Dhar (External member)


Signature & Seal of HoD

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School of Physical Sciences: B.Sc. Hon's (Physics)

Semester	Course Opted	Course Code	Name of the course	Credit	Hour / week
I	Core-1	PS/PHY/C-101L	Mathematical Physics-I	4	4
	Core -1 Practical	PS/PHY/C-101P	Mathematical Physics-I Lab	2	4
	Core -2	PS/PHY/C-102L	Mechanics	4	4
	Core -2 Practical	PS/PHY/C-P-102P	Mechanics Lab	2	4
	Generic Elective -1 (GE- IA)	PS/PHY/GE-101	To be opted from the pool*	4	4
	Generic Elective - Practical	PS/PHY/GE-P-101	GE-101 practical as opted	2	4
	Ability Enhancement Compulsory Course (AECC)	PS/PHY/AE-101/EC	English Communication / MIL (Hindi Communication)	4*	4
	ECA	Open elective (Optional)	ECA-Extracurricular activity/ Tour, Field visit/ Industrial training/ NSS/ Swachhta/ vocational Training/ Sports/ others	2	(2)
			TOTAL	24	28
II	Core-3	PS/PHY/C-203	Electricity and Magnetism	4	4
	Core -3 Practical	PS/PHY/CP-203	Electricity and Magnetism Lab	2	4
	Core -4	PS/PHY/C-204	Waves and Optics	4	4
	Core -4 Practical	PS/PHY/CP-204	Waves and Optics Lab	2	4
	Generic Elective -2 (GE-IB)	PS/PHY/GE-202/CHM	GE-102 (second course of the same subjected as opted in GE-101)	4	4
	Generic Elective - Practical	PS/PHY/GE-P-202/CHM		2	4
	Ability Enhancement Compulsory Course (AECC)	PS/PHY/AE-201/ES	Environmental Science	4*	4
	ECA	Optional elective	ECA-Extracurricular activity/ Tour, Field visit/ Industrial training/ NSS/ Swachhta/ vocational Training/ Sports/ others	2	(2)
			Total	24	28
	SUMMER Internship: 15 days	Optional elective	SwayamSwachhta / NSS / Industrial/ others	2	100
	Core-5	PS/PHY/C-301L	Mathematical Physics-II	4	4

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III	Core -5 Practical	PS/PHY/C-301P	Mathematical Physics-II Lab	2	4
	Core -6	PS/PHY/C-302L	Thermal Physics	4	4
	Core -6 Practical	PS/PHY/C-302P	Thermal Physics Lab	2	4
	Core - 7	PS/PHY/C-303L	Digital Systems and Applications	4	4
	Core – 7 Practical	PS/PHY/C-303P	Digital Systems & Applications Lab	2	4
	Generic Elective -3 (GEII-A)		To be opted from the pool of GE	4	4
	Generic Elective - Practical			2	4
	Skill Enhancement Course (SEC - 1)		To be opted from the pool of SE courses**	4*	2 (4)
			Total	28	34
IV	Core-8		Mathematical Physics III	4	4
	Core -8 Practical		Mathematical Physics-III Lab	2	4
	Core -9		Elements of Modern Physics	4	4
	Core -9 Practical		Elements of Modern Physics Lab	2	4
	Core - 10		Analog Systems and Applications	4	4
	Core -10 Practical		Analog Systems & Applications Lab	2	4
	Generic Elective -4 (GEII-B)		To be opted from the pool of Generic courses	4	4
	Generic Elective - Practical			4	4
	Skill Enhancement Course (SEC -2)		To be opted from the pool of SE courses	4*	2
			TOTAL	28	34
SUMMER Internship: 15 days		Optional elective	SwayamSwachhta / NSS / Industrial/ others	2	100
V	Core-11		Quantum Mechanics & Applications	4	4
	Core -11 Practical		Quantum Mechanics Lab	2	4
	Core -12		Solid State Physics	4	4
	Core -12 Practical		Solid State Physics Lab	2	4
	Discipline Specific Elective (DSE-1)	PS/PHY/DSE-501L	DSE-1	4	4

Students Undertaking Field Projects / Research Projects / Internships **Criteria - I (1.3.4)**



	DSE-1 - Practical	PS/PHY/DSE-501P	DSE-1 Lab	2	4
	Discipline Specific Elective (DSE-2)	PS/PHY/DSE-502L	DSE-2	4	4
	DSE-2 - Practical	PS/PHY/DSE-502P	DSE-2 Lab	2	4
			TOTAL	24	3 2
VI	Core-13		Electro-magnetic Theory	4	4
	Core -13 Practical		Electro-magnetic Theory Lab	2	4
	Core -14		Statistical Mechanics	4	4
	Core -14 Practical		Statistical Mechanics Lab	2	4
	Discipline Specific Elective (DSE-3)	PS/PHY/DSE-503L	DSE-3	4	4
	DSE-3 - Practical	PS/PHY/DSE-503P	DSE-3 Lab	2	4
	Discipline Specific Elective (DSE-4) + DSE-4 – Practical	PS/PHY/PD		4+2=6	
	Or Dissertation/ Project work followed by seminar			Or 5 +1=6	
			TOTAL	24	
			TOTAL CREDITS	152 + 4	(SI)

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Students Undertaking Field Projects / Research Projects / Internships

Department : **Pure and Applied Physics**

Programme Name : **B.Sc. Physics**

Academic Year : **2021-22**

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.	Abhijeet Kujur	Differentiator Circuit/GGV	CLICK HERE
02.	Abhilash Panday	Renewable Energy Sources/GGV	CLICK HERE
03.	Abhishek Dewangan	Study Of Astronomical Ground Base Telescope/ GGV	CLICK HERE
04.	Agendra Sahu	A Review Of Material Characterization By XRD / GGV	CLICK HERE
05.	Akash Kumar Tekam	X-Ray Diffraction By Crystal/ GGV	CLICK HERE
06.	Alauddin	Thermoelectric Material/ GGV	CLICK HERE
07.	Amitesh Kashyap	Photovoltaic Cell GGV	CLICK HERE
08.	Ankit Patel	A Study Of Neutron Scattering And Its Application/ GGV	CLICK HERE
09.	Avni Gupta	Study Of Dielectric Property Of Material And Its Application / GGV	CLICK HERE
10.	Bhuvneshwar	Schrodinger Equation In One Dimension / GGV	CLICK HERE
11.	Deepanwita	Carbon Nanotube/ GGV	CLICK HERE
12.	Deepshikha Sahu	To Study The Rest Mass Energy Of Electron Using Compton Scattering Effect And Scintillation Counter/ GGV	CLICK HERE
13.	Devashish Kurrey	Nuclear Reaction Analysis / GGV	CLICK HERE
14.	Devendra Chandra	The UV Powered Solar Channel/ GGV	CLICK HERE
15.	Dhavichanrda Dhirhe	A Review On Superconductivity/ GGV	CLICK HERE
16.	Divyansh Panday	X – Ray Diffraction / GGV	CLICK HERE
17.	Guldeep Gavel	Electron System And Helium Atom/ GGV	CLICK HERE
18.	Harshvardhan Patel	Major Telescopes In Space/ GGV	CLICK HERE



19.	Hitesh Baghel	Green Synthesis Characterization And Application Of Nano Particles By Plants Extracts/ GGV	CLICK HERE
20.	Jittu Dewangan	Study Of Proton Exchange Membrane Fuel Cell . / GGV	CLICK HERE
21.	Kiran Gupta	Lithium Ion Battery / GGV	CLICK HERE
22.	Kushum Tekam	Construction And Application Of Heat Sensor/ GGV	CLICK HERE
23.	Mandhya Singh	Radioactivity And Its Application / GGV	CLICK HERE
24.	Manu Kumar Baghel	Renewable Energy And Emerging Technologies/ GGV	CLICK HERE
25.	Monika Rana	Electron Microscopy/ GGV	CLICK HERE
26.	Nandini Yadaw	A Review On Photovoltaic Cell/ GGV	CLICK HERE
27.	Narayan Chandrakar	Stellar Photometry Using CCD/ GGV	CLICK HERE
28.	Naveen Kumar Deshlahare	Studies And Characterization Of Baso4:Eu Nanospere./ GGV	CLICK HERE
29.	Neelanj Sahu	Structural Analysis Of Ceramics Recent Advantages/ GGV	CLICK HERE
30.	Nidhi Sahu	Heat Transfer In Biomaterials	CLICK HERE
31.	Nikhil Patel	A Review On Fullrence And Its Application/ GGV	CLICK HERE
32.	Omkar Pachori	Ferroelectric Properties Of Materials/ GGV	CLICK HERE
33.	Omprakash Laser	Review On Optical Microscope, Electron Microscopy,And SEM/ GGV	CLICK HERE
34.	Piyush Kumar Sao	Schrodinger Equation In Two Dimension/ GGV	CLICK HERE
35.	Pooja Patel	A Project On Light Emitting Diode/ GGV	CLICK HERE
36.	Prashant Kumar Chouhan	Liquid Drop Model/ GGV	CLICK HERE
37.	Pratishtha Patel	An Ion Beam Analysis Techniques/ GGV	CLICK HERE
38.	Rahul Shrivash	Electrical Energy From Sound Energy/ GGV	CLICK HERE
39.	Rajnish Tandon	Solar Power/ GGV	CLICK HERE
40.	Rakesh Painkra	Radioactivity And Law Of Radioactivity Decay/ GGV	CLICK HERE
41.	Rupesh Dewangan	Solar Cell And Generation / GGV	CLICK HERE
42.	Sangeeta Dahari	Plasma Lenses: Smaller Accelerator/ GGV	CLICK HERE



43.	Satyam Kumar Druw	Electron Microscopy/ GGV	CLICK HERE
44.	Shashank Goutam	Application Of Nano Particles In Photoluminescence/ GGV	CLICK HERE
45.	Shourya Kumar Gupta	A Review On Solar Cell/ GGV	CLICK HERE
46.	Shikha Shukla	Study On Neutron Activation Analysis/ GGV	CLICK HERE
47.	Shraddha Tiwari	Synthesis Of Nanomaterial/ GGV	CLICK HERE
48.	Shubhangi Dewangan	Nanosponge To Combate Climate Change And Pollution/ GGV	CLICK HERE
49.	Siddharth Singh	A Study On Dielectric Property Of Material/ GGV	CLICK HERE
50.	Simran Manhash	Renewable Energy/ GGV	CLICK HERE
51.	Sulekha	Stellar Evaluation / GGV	CLICK HERE
52.	Surya Prakash	Studies Of Sr ₂ SiO ₄ With Rare Earth Doped Dy ³⁺ Nanophospher And Its Characterization And Thermo-Luminescence / GGV	Project/BSc. Physics-2022/Surya apraksh
53.	Swati Ratnakar	Superconductors/ GGV	CLICK HERE
54.	Tukeshwar Sahu	Green Synthesis Of Gold Nano Particles Using Leaf Extracts Of Osmium Sanctum/ GGV	CLICK HERE
55.	Tushar Patel	Thin Film Solar Cell/ GGV	CLICK HERE
56.	Udayan Patel	A Study On Grapheme Quantum Dot And Its Application/ GGV	CLICK HERE
57.	Uttam Kumar Sahu	Tight Bonding Model For Grapheme/ GGV	CLICK HERE
58.	Vikash Joshi	Magantic Resonant Imaging/ GGV	CLICK HERE
59.	Vikram Singh Thakur	Study On Radiation Shielding To Protect From Beta And Gamma Radiation/ GGV	CLICK HERE
60.	Vivek Singh	Electron Microscopy/ GGV	CLICK HERE
61.	Yamini Singh Thakur	Hydroelectric Power / GGV	CLICK HERE
62.	Yogesh Bajaj	Photoelectric Effect/ GGV	CLICK HERE

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