



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)	2020-2021



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

Academic Year : 2020-21

School : *School of Physical Sciences*

Department : *Pure and Applied Physics*

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

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



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



III	Core-5	PS/PHY/C-301L	Mathematical Physics-II	4	4
	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
	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



V	Discipline Specific Elective (DSE-1)	PS/PHY/DSE-501L	DSE-1	4	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			Or	
	Dissertation/ Project work followed by seminar			5 +1=6	
		TOTAL	24		
		TOTAL CREDITS	152 + 4 (SI)		



Students Undertaking Field Projects / Research Projects / Internships

Department : **Pure and Applied Physics**

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

Academic Year : **2020-21**

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.	Abhay singh	Powder x ray differaction dta indexing methods/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022114645_Abhay%20Singh%20bhardwaj.pdf
02.	Abhinav kulmitra	Superconductivity	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022114729_Abhinav%20kulmitra.pdf
03.	Aman patel	Synthesis and characterization of dysprosium doped strontium aluminate by FTIR and thermoluminescence/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022114837_Aman%20patel.pdf
04.	Anjali saraf	Nanosponge to cobate climate change and pollution/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022114940_Archana%20thakur.pdf
05.	Archana thakur	Review on graphene quantum dot/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/



			06302022114940_Archana%20thakur.pdf
06.	Arnab chakroborty	Electron microscopy/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115011_Arnab%20Chakraborty.pdf
07.	chandrakiran	A review on Dye- sensitized solar cell/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115117_chandrakiran.pdf
08.	Devendra yadaw	Transmission electron microscopy/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115148_devendra%20yadaw.pdf
09.	Diptika sahu	Dielectric properties of material/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115213_diptika%20sahu.pdf
10.	Dron chakradhari	Quantum confinement/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115255_dron%20chakradhari.pdf
11.	Gourave miri	To study scanning tunneling microscope/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115330_gourav%20miri.pdf
12.	Himanshu dewangan	Radio carbon dating /GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115330_gourav%20miri.pdf



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13.	hrishabh	Electron microscopy/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115418_Hrishabh.pdf
14.	Jitendra prakash	A review on a superconductivity/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115512_jitendra%20prakash.pdf
15.	khemprabha	Energy gap in superconductors/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115546_khemprabha.pdf
16.	Kishan patel	Magnetic properties of nano particle/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115612_kishan%20patel.pdf
17.	Mansi patel	Synthesis of titanium nano tube/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115643_Mansi%20patel.pdf
18.	MD kamran ahil	Davission and germer experiment /GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115714_MD%20KAMRAN%20AHIL.pdf
19.	Milya verma	Carbon nano tube particle/GGV	https://www.ggu.ac.in/Admin/Files/Dep



			artmentDocument/06302022115739_milya%20verma.pdf
20.	Mukesh patel	A review on light emitting diode/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115809_Mukesh%20patel.pdf
21.	Navneet patel	The astronomical telescopes/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115847_navneet%20patel.pdf
22.	Neeraj kumar	Study of Sr ₂ SiO ₄ with rare earth doped Dy ³⁺ nanosphere and its XRD charecterization and thermoluminiscence/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022115926_neeraj%20kumar.pdf
23.	Nitin dewangan	Study on growth of graphene quantum dots and its application/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022120003_nitin%20dewangan.pdf
24.	Omesh chandram	Zinc oxide based LED/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022120110_omprakash%20singh.pdf
25.	Omprakash singh	Review on metal oxide nano material/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022120110_omprakash%20singh.pdf



26.	Preeti	Solar cell/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022120157_preeti.pdf
27.	Priyank sonat	Review on magnetism/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022120238_Priyanka%20sonat.pdf
28.	rahul	Solving the stationary one dimension schrodinger equation with the shooting method/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022120418_Rahul.pdf
29.	Rahul kumar jangde	Transmission electron microscopy/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022120319_Rahul%20Kumar%20jangde.pdf
30.	Ravindra K shrivas	A reviw on the artificial transmutation of elements/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121012_ravindra%20k%20shrivas.pdf
31.	Ritu kunjam	Black body radiation/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121041_ritu%20kunjam.pdf
32.	Sanskriti koushik	Polymer dielectric material/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121114_sanskriti%20koushik.pdf



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33.	Sarvesh soni	Quantum tunnelling effect /GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121114_sanskriti%20koushik.pdf
34.	Satish kumar kendra	Literature of glass preparation techniques /GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121205_Satish%20Kumar%20kendra.pdf
35.	Sebhya kumar sahu	Crystal structure/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121240_sabhya%20kumar%20Osahu.pdf
36.	Shailesh singh	Raman spectroscopy for nano material/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121311_Shailesh%20singh.pdf
37.	Shakshi sharma	To study the detection of alpha and beta radiateon around the physics complex /GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121334_shakshi%20sharma.pdf
38.	Shiva Sharma	Graphine and its application/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121415_Shivam%20Dubey.pdf



39.	Shivam dubey	Optical fiber communication/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121415_Shivam%20Dubey.pdf
40.	Shraddha sahu	Words beyond your solar system/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121454_Shraddha%20sahu.pdf
41.	Shreyash kant	Photoluminescence/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121522_s_hreyansh%20kant.pdf
42.	Shubham rathore	Rutherford scattering and nuclear model of atom/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121546_S_HUBHAM%20RATHORE.pdf
43.	Sourabh mishra	Rocket propulsion/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121730_Sourabh%20mishra.pdf
44.	Sudarshan patel	Reviw on silicon solar cell/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022121803_sudarshan%20patel.pdf
45.	Sumit dadsena	A review on upconversion phosphor/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/



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46.	Suraj gupta	Hall effect of solid material/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022122111_Suraj%20Gupta.pdf
47.	Swapnil ssp	A review on crystal structure, symmetry element, point group and space group/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022122303_Swapnil%20ssp.pdf
48.	Sweta choudhary	Spintronics/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022122343_Sweta%20choudhary.pdf
49.	Tajesh	Nanomaterials/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022122417_Tajesh.pdf
50.	Tanisha yadaw	Radioactive waste management /GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022122450_Tanisha%20yadaw.pdf
51.	Vivek kumar	A C++ programme to display various properties of semiconductor materials/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/06302022122531_vivek%20kumar.pdf
52.	Yamini janghel	EPR study of manganites/GGV	https://www.ggu.ac.in/Admin/Files/DepartmentDocument/



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53.	Yogesh kumar	Wireless power transfer/GGV	https://www.ggu.ac .in/Admin/Files/Dep artmentDocument/ 06302022122732_y ogesh%20kumar.pd f