



List of Programme(s)

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)	2017-2018
02.			
03.			



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

Academic Year : 2017-18

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 B. 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



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	2	4

		&Applications Lab		
	Generic Elective -3 (GEII-A)	To be opted from the 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 (4)
			TOTAL	28	34

SUMMER Internship: 15 days	Optional elective	SwayamSwachhta / NSS / Industrial/ others	2	100
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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
	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	32
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	8
	Or Dissertation/ Project work followed by seminar			Or 5 +1=6	
			TOTAL	24	32
			TOTAL CREDITS	152 + 4 (SI)	



Students Undertaking Field Projects / Research Projects / Internships

Department : Pure and Applied Physics

Programme Name : B.Sc. Physics

Academic Year : 2017-18

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.	Aishwarya verma	Superconductivity/GGV	
02.	Ankita markam	Holography/GGV	
03.	Ashutosh namdev	Specific heat of solid/GGV	
04.	Bharat kumar	Superconductivity properties of materials/GGV	
05.	Bhawna jaiswal	Study of cosmic rays/GGV	
06.	Dhalesh kumar patel	Multiferroic material techniques properties and application/GGV	
07.	Ekta upadhyay		
08.	Jairam nayak	Linear accelerator /GGV	
09.	Jainarayan dubey	Raman spectroscopy/GGV	
10.	Kumar lov rana	Supercapacitors/GGV	
11.	Lalima ptel	Review on heat capacity/GGV	
12.	Litesh kumar	Working principal of cyclotron/GGV	
13.	Mahendra kumar	Solid state laser and its applixation/GGV	
14.	Prakash soni	Neutrino and its basic properties/GGV	
15.	Prashant	Superconductivity/GGV	



16.	Pratiksha Pradhan	Superconductors/GGV	
17.	Pravin Choudhary	Study On Multiferroic Property/GGV	
18.	Priya Chandra	Study Of Higgs Boson/Ggv	
19.	Rahul Bhagat	LIGO Detector And Detection Of Gravitational Waves/GGV	
20.	Sangeeta Kanwar	Radioactivity/GGV	
21.	Sanjay Jagat	Laser And Its Application/GGV	
22.	Shubhashish Das	BIG Bang Creation Of Antimatter Antiuniverse/GGV	
23.	Shushant Kumar Vijay	Recent Advances In Thermoelectric Material/GGV	
24.	Shweta Yadav	Hall Effect/GGV	
25.	Shourabh Gouraha	Experimental Setup For Low Temperature And High Magnetic Field Resistivity Measurement Using Foure Probe Method/GGV	
26.	Sourav Baghel	Liquid Ctrystal/GGV	
27.	Suraj Patel	Raman Effect And Its Application /GGV	
28.	Toshiba	Rutherford Backscattering Spectrometry /GGV	
29.	Tribhuvan Nayak	Electrical Properties Of Semiconductors /GGV	
30.	Vishal Kumar Kanskar	Gravitational Wave/GGV	