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)	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 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 / weak
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
	Core -5 Practical	PS/PHY/C-301P	**Mathematical Physics-II Lab**	2	4
	Core -6	PS/PHY/C-302L	**Thermal Physics**	4	4

III	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 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-IIILab**	2	4
	Core -9		**Elements of ModernPhysics**	4	4
	Core -9 Practical		**Elements of ModernPhysics 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 ofGeneric courses	4	4
	Generic Elective - Practical			4	4
	Skill Enhancement Course (SEC -2)		To be opted from the pool ofSE courses	4*	2 (4)
			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
	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 TheoryLab**	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 **Or** Dissertation/ Project work followed by seminar	PS/PHY/PD		4+2=6 **Or** 5 +1=6	8
			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 : 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.	Aanchal Yadav	A review on modern day sensors in daily life/GGV Bilaspur	
02.	Abha Paranjape	Photovoltaic material and solar cell/GGV Bilaspur	
03.	Aditya Kumar	superconductivity/GGV Bilaspur	
04.	Anjali Gupta	Amorphous based solar cell/GGV Bilaspur/GGV Bilaspur	First Letter of Each Word should be Capital
05.	Anubhav Singh	A review on graphene and its application/GGV Bilaspur	
06.	Anmol Namdev	Review on artificial plasma and application/GGV Bilaspur	
07.	Ashok Patel	Specimen A Raman effect/GGV Bilaspur	
08.	Atrirek Kujur	Project on solar cell/GGV Bilaspur	
09.	Bhumika Patel	Pelletron particle accelerator/GGV Bilaspur	
10.	Chandrika	Understanding the mechanism of multiferroic material/GGV Bilaspur	
11.	Bimlesh Mehar	A review on magnetic Levitation/GGV Bilaspur	
12.	Chandrama Barik	Crystallography and crystal structure of few selected materials/GGV Bilaspur	
13.	Devendra Kashayap	Review on solar cell/GGV Bilaspur	
14.	Manoj Prabhakar	Magnetic levitation/GGV Bilaspur	
15.	Milap Patel	Dielectric theory and application/GGV Bilaspur	
16.	Nishchay Tiwari	superconductors/GGV Bilaspur	
17.	Rahul Kumar	A review on photo cell and its	

		application/GGV Bilaspur	
18.	Pooja Gupta	thermoelectricity/GGV Bilaspur	
19.	R suchita Mongre	Zinc oxide based nano materials/GGV Bilaspur	
20.	Rahul Nayak	Structure of atom/GGV Bilaspur	
21.	Rajesh kumar patel	FTIR spectroscopy/GGV Bilaspur	
22.	Ravindra Chandra	Methods of measuring stellar distances/GGV Bilaspur	
23.	Saba sahin	Study of multiferroic/GGV Bilaspur	
24.	satyanarayan	Semiconductor detector/GGV Bilaspur	
25.	Satyendra bhardwaj	Photovoltaic cell/GGV Bilaspur	
26.	Shashank manikpuri	Review on dielectric materials/GGV Bilaspur	
27.	shikha	superconductor/GGV Bilaspur	
28.	Shobha chouhan	The laser interferometer gravitational-wave observation/GGV Bilaspur	
29.	Shreelekha bhattacharya	Design and fabrication of graphene based solar cell/GGV Bilaspur	
30.	Somya dewangan	Numerical solution of hydrogen atom/GGV Bilaspur	
31.	Shristi rai	X ray diffraction/GGV Bilaspur	
32.	Subha koshley	Review on carbon nanotube and their application/GGV Bilaspur	
33.	Subha Kahar	Atom in crystal and atomic packing/GGV Bilaspur	
34.	Suruchi Pandey	Application of particle accelerator/GGV Bilaspur	
35.	Tomesh Verma	Phase transition/GGV Bilaspur	
36.	Vinay nayak	Mutiferroic properties/GGV Bilaspur	
37.	Yogendra kumar ratre	stroboscope/GGV Bilaspur	
38.	Yushmi Tomesh sahu	superconductivity/GGV Bilaspur	