



Department: Pure and Applied Physics

List of Programmes having Components of field

Sr. No.	Programme Code	Programme Name	Academic Year
01.	B.Sc. (Electronics)	Dissertation/Project work followed by seminar (PS/ELEC/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. (Electronics), 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



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

Semester	Course Opted	Course Code	Name of the course	Credit	Hour / week
I	Core-1	PS/ELEC/C-101L	Basic Circuit Theory and Network Analysis	4	4
	Core-1 Practical	PS/ ELEC/C-101P	Basic Circuit Theory and Network Analysis Lab	2	4
	Core-2	PS/ ELEC/C-102L	Mathematics Foundation for Electronics	4	4
	Core-2 Practical	PS/ ELEC/C-P-102P	Mathematics Foundation for Electronics Lab	2	4
	Generic Elective -I (GE- 1A)	PS/ELEC/GE-101	To be opted from the pool*	4	4
	Generic Elective - Practical	PS/ELEC/GE-P-101	GE-101 practical as opted	2	4
	Ability Enhancement Compulsory Course (AECC)	PS/ ELEC/AE-101/EC	English Communication / MII. (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/ ELEC /C-203L	Semiconductor Devices	4	4
	Core-3 Practical	PS/ ELEC /CP-203P	Semiconductor Devices Lab	2	4
	Core-4	PS/ ELEC /C-204L	Applied Physics	4	4
	Core-4 Practical	PS/ ELEC /CP-204P	Applied Physics Lab	2	4
	Generic Elective -2 (GE-IB)	PS/ ELEC /GE-202/	GE-102 (second course of the same subject as opted in GE-101)	4	4
	Generic Elective - Practical	PS/ ELEC /GE-P-202/	GE-202 practical as opted	2	4
	Ability Enhancement Compulsory Course (AECC)	PS/ ELEC /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

Handwritten signatures and initials in blue ink, including 'Dr. Jyoti', 'Dr. Anand', and 'Dr. S. K. Singh'.



SUMMER Internship: 15 days		Optional elective	Swayam Swachhata / NSS / Industrial/ others	2	100
III	Core-5	PS/ ELEC /C-301L	Electronic Circuits	4	4
	Core -5 Practical	PS/ ELEC /C-301P	Electronic Circuits Lab	2	4
	Core -6	PS/ ELEC /C-302L	Digital Electronics and VHDL	4	4
	Core -6 Practical	PS/ ELEC /C-302P	Digital Electronics and VHDL Lab	2	4
	Core -7	PS/ ELEC /C-303L	C Programming and Data Structures	4	4
	Core -7 Practical	PS/ ELEC /C-303P	C Programming and Data Structures Lab	2	4
	Generic Elective -3 (GEIII-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	PS/ ELEC /C-401L	Operational Amplifiers and Applications	4	4
	Core -8 Practical	PS/ ELEC /C-401P	Operational Amplifiers and Applications Lab	2	4
	Core -9	PS/ ELEC /C-402L	Signals and Systems	4	4
	Core -9 Practical	PS/ ELEC /C-402P	Signals and Systems Lab	2	4
	Core -10	PS/ ELEC /C-403L	Electronic Instrumentation	4	4
	Core -10 Practical	PS/ ELEC /C-403P	Electronic Instrumentation Lab	2	4
	Generic Elective -4 (GEIV-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	Swayam Swachhata / NSS / Industrial/ others	2	100
V	Core-11	PS/ ELEC /C-501L	Microprocessors and Microcontrollers	4	4
	Core -11 Practical	PS/ ELEC /C-501P	Microprocessors and Microcontrollers Lab	2	4
	Core -12	PS/ ELEC /C-502L	Electromagnetics	4	4
	Core -12 Practical	PS/ ELEC /C-502P	Electromagnetics Lab	2	4

Handwritten notes and signatures:
 Prof. Dr. ...
 Prof. Dr. ...
 Prof. Dr. ...
 Prof. Dr. ...
 Prof. Dr. ...



	Discipline Specific Elective (DSE-1)	PS/ELEC/DSE-501L	DSE-1	4	4
	DSE-1 - Practical	PS/ELEC/DSE-501P	DSE-1 Lab	2	4
	Discipline Specific Elective (DSE-2)	PS/ELEC/DSE-502L	DSE-2	4	4
	DSE-2 - Practical	PS/ELEC/DSE-502P	DSE-2 Lab	2	4
			TOTAL	24	32
VI	Core-13	PS/ ELEC /C-601L	Communication Electronics	4	4
	Core -13 Practical	PS/ ELEC /C-601P	Communication Electronics Lab	2	4
	Core -14	PS/ ELEC /C-602L	Photonics	4	4
	Core -14 Practical	PS/ ELEC /C-602P	Photonics Lab	2	4
	Discipline Specific Elective (DSE-3)	PS/ELEC/DSE-503L	DSE-3	4	4
	DSE-3 - Practical	PS/ELEC/DSE-503P	DSE-3 Lab	2	4
	Discipline Specific Elective (DSE-4) + DSE-4 - Practical	PS/ELEC/PD		4+2=6	8
	Or Dissertation/ Project work followed by seminar			5+1=6	
			TOTAL	24	32
			TOTAL CREDITS	152 + 4 (SI)	

As per UGC CBCS guidelines, University / departments have liberty to offer GE and SEC courses offered by any department to students of other departments. The No. of GE course is four. One GE course is compulsory in first 4 semesters each. In present scheme it is proposed to have minimum two GE courses (from one subject) in first two semesters after which student shall change two GE for another subject in IIIrd and IVth semester, so that all the student can have exposure of one additional subject. (Subject to approval by the competent authority).

Handwritten notes and signatures:
 18/7/10
 Anand Singh
 Tarender Singh
 Princi
 Singh



Students Undertaking Field Projects / Research Projects / Internships

Department : Pure and Applied Physics

Programme Name : B.Sc. Electronics

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.	Aditi Singh Kshatri	Polic siren / GGV Bilaspur	
02.	Alankar Soni	Music rhythm operated LED/ GGV Bilaspur	
03.	Anjali Patel	Laser security system using LM 358 and NE555 timer IC/ GGV Bilaspur	
04.	Anupat Gupta	Automatic traffic light control/ GGV Bilaspur	First Letter of Each Word should be Capital
05.	Ashish Patel	Non-contact AC voltage detector/ GGV Bilaspur	
06.	Brij Kishor Dhobhi	Fire alarm/ GGV Bilaspur	
07.	Chandra Prakash Sahu	Fire alarm using thermistor/ GGV Bilaspur	
08.	Dipesh Bharwaj	Full wave rectifier/ GGV Bilaspur	
09.	Digeswar Rajput	A cell phone detector/ GGV Bilaspur	
10.	Deepshikha Painkara	Flash type analog to digital converter/ GGV Bilaspur	
11.	Gopi Chand Yadav	Clap Switch/ GGV Bilaspur	
12.	Heeramani	Construction of mini inverter/ GGV Bilaspur	
13.	Jaya Kaushik	Flame detector alarm system/ GGV Bilaspur	
14.	Kanha Sahu	Smart home light/ GGV Bilaspur	
15.	Khilesh Dewangan	Touch sensor using 555 timer IC/ GGV Bilaspur	
16.	Krishnakant	Wireless power transmission/ GGV Bilaspur	
17.	Kuldeep Dhurwey	Infrared object counter/ GGV Bilaspur	



18.	Lamodar Patel	LDR security alarm/ GGV Bilaspur	
19.	Lokesh Kumar Dewangan	Grass cutter with DC power supply/ GGV Bilaspur	
20.	Manisha Dewangan	AC voltage detector/ GGV Bilaspur	
21.	Priya Rai	Sine wave generator of pam/ GGV Bilaspur	
22.	Rakesh Divya	Automatic night lamp using LDR/ GGV Bilaspur	
23.	Satendra	Password security for electronic devices/ GGV Bilaspur	
24.	Saurabh Verma	Electronic piano/ GGV Bilaspur	
25.	Shankar Bhardwaj	Piezo electric transducer/ GGV Bilaspur	
26.	Sharad Mishra	Single Axis solar tracker/ GGV Bilaspur	
27.	Sheetal Shrivastava	Short range radar system Rangefinder/ GGV Bilaspur	
28.	Vijay Kumar Sahu	IR remote control on/off switch/ GGV Bilaspur	
29.	Vishal Singh	Clap switch/ GGV Bilaspur	
30.	Yaman Singh Thakur	FM modulation and reception technique/ GGV Bilaspur	