



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)	2017-2018



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. (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

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 Dr. [Signature]
 Dr. [Signature]
 Dr. [Signature]



SUMMER Internship: 15 days		Optional elective	Swayam Swachhta / 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 Swachhta / 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

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 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 signatures and dates:
Date: 10/7/20
Signature: Anand Singh
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Signature: Anand Singh



Students Undertaking Field Projects / Research Projects / Internships

Department : Pure and Applied Physics

Programme Name : B.Sc. Electronics

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.	Aakash Singh	Regulated Power Supply GGV Bilaspur	
02.	Aman gupta	A Line Following Robot Using Microcontroller GGV Bilaspur	
03.	Vaibhav soni	Adder Using op Amp GGV Bilaspur	
04.	Aadarsh Mishra	The water Level Indicator GGV Bilaspur	First Letter of Each Word should be Capital
05.	Nilesh Kumar	Line Follower Robot GGV Bilaspur	
06.	Abhishek Dewangan	DC Regulated Power Supply GGV Bilaspur	
07.	Shifa Mirza	Diode Resistor Logic GGV Bilaspur	
08.	Sapna Banjare	Mobile Phone Detector GGV Bilaspur	
09.	Pankaj Jaiswal	OP amp as Adder & Substrator GGV Bilaspur	
10.	Diwakar Rajput	Clap Switch GGV Bilaspur	
11.	Manisha Yadav	Flip Flop GGV Bilaspur	
12.	Dimple Chandra	Implementation of NAND and NOR Gate Using IC 74LS00 & 74LS02 GGV Bilaspur	
13.	Renuka Singh	Digital Logic Gates GGV Bilaspur	
14.	Manisha Naik	DC Regulated Power Supply GGV Bilaspur	
15.	Vipeen Patel	IR Based Parking Sensor GGV Bilaspur	



16.	Ankit	Common Emitter Amplifier GGV Bilaspur	
17.	Mriduvesh	Basic Logic Gate Using NPN Transistor GGV Bilaspur	
18.	Shoyebuddi Shiekh	IR Based Remote Control Switch GGV Bilaspur	
19.	Vishay Bhagat	Delay off Timer Circuit By Using IC 555 GGV Bilaspur	
20.	Vishnu Giri	OP amp-Based Adder & Substrator GGV Bilaspur	
21.	Bhupesh singh	Room Temperature Measurement & Display on 7 Segment LED GGV Bilaspur	
22.	Aman Gupta	A Line Following Robot Using Microcontroller GGV Bilaspur	