



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

**Academic Year : 2021-22**

**School : School of Physical Sciences**

**Department : Pure and Applied Physics**

**Date and Time : March 10, 2022 - 02:00 PM**

**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 M. Sc. (Electronics), scheme and syllabi.

The following members were present in the meeting:

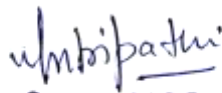
1. Dr. M. N. Tripathi
2. Prof. P. K. Bajpai
3. Prof. D. C. Gupta, External Member (Professor & Head, School of Studies in Physics, Jiwaji University, Gwalior)
4. Dr. A. K. Singh
5. Mr. P. Rambabu
6. Dr. R. P. Patel
7. Dr. M. P. Sharma

The committee discussed and approved the scheme and syllabi. The following courses were revised in the M. Sc. (Electronics):

- ❖ Semiconductors Materials & Devices
- ❖ Analog and Digital Electronics
- ❖ Electromagnetic theory and Wave Propagation
- ❖ Advanced Communication System-1

**The following new courses were introduced in the M. Sc. (Electronics):**

- ❖ Mathematical Techniques for Electronics
- ❖ Semiconductors Materials & Devices Lab
- ❖ Analog and Digital Electronics Lab
- ❖ Applications of Nanotechnology in Electronics
- ❖ Applications of Nanotechnology in Electronics Lab
- ❖ IC Fabrication and VLSI Technology
- ❖ Microprocessors and Microcontrollers
- ❖ Microprocessors and Microcontrollers Lab
- ❖ Analog and Digital Communication System Lab

  
विभागाध्यक्ष/H.O.D.  
शुद्ध एवं अनुप्रयुक्त भौतिकी विभाग  
Dept. of Pure & Applied Physics  
गुरु घासीदास विश्वविद्यालय  
Guru Ghasidas Vishwavidyalaya  
बिलासपुर (छ.ग.)/Bilaspur (C.G.)

Signature & Seal of HoD

**DEPARTMENT OF PURE AND APPLIED PHYSICS**  
**M.Sc. (Electronics) Course structure under CBCS/LOCF**  
**Academic year 2021 – 2022**

Sem	Course Opted	Course Code	Name of the course	Credit	L:T:P	Internal	External	Total	
I	Core-1	PEPATT1	Mathematical Techniques for Electronics	5	4+1+0	30	70	100	
	Core -2	PEPATT2	Semiconductors Materials & Devices	3	3+0+0	30	70	100	
		PEPALT2	Semiconductors Materials & Devices Lab	2	0+0+2	30	70	100	
	Core -3	PEPATT3	Analog and Digital Electronics	3	3+0+0	30	70	100	
		PPPALT3	Analog and Digital Electronics Lab	2	0+0+2	30	70	100	
	Open Elective		Opted from the pool and offered by other departments	5	5+0+0	30	70	100	
	Other if any*								
			<b>TOTAL</b>		<b>20</b>			<b>600</b>	
			<b>Open Elective offered by the Department</b>						
	Open Elective	OPNPET1	Applications of Nanotechnology in Electronics	3	3+0+0	30	70	100	
	OPNPEL1	Applications of Nanotechnology in Electronics Lab	2	0+0+2	30	70	100		
II	Core-4	PEPBTT1	Electromagnetic theory and Wave Propagation	5	4+1+0	30	70	100	
	Core -5	PEPBTT2	IC Fabrication and VLSI Technology	5	4+1+0	30	70	100	
	Core -6	PEPBTT3	Microprocessors and Microcontrollers	3	3+0+0	30	70	100	
		PEPBLT3	Microprocessors and Microcontrollers Lab	2	0+0+2	30	70	100	
	Discipline Specific Elective 1	PEPBTD1	Advanced Communication System-1	3	3+0+0	30	70	100	
		PEPBLD1	Analog and Digital Communication System Lab	2	0+0+2	30	70	100	
	Other if any*								
			<b>TOTAL</b>		<b>20</b>			<b>900</b>	
III	Core-7	PEPCTT1	Power Semiconductor Devices and Control System	5	4+1+0	30	70	100	
	Core-8	PEPCTT2	Sensors and Transducers	5	4+1+0	30	70	100	
	Core-9	PEPCTT3	Optoelectronics Devices	3	3+0+0	30	70	100	
		PEPCLT3	Optoelectronics Devices Lab	2	0+0+2	30	70	100	
	Research Methodology	PEPCTR1#	Research Methodology in Electronics	2	2+0+0	30	70	100	
	Discipline Specific elective 2	PEPCTD1	Advanced Communication System-2	3	3+0+0	30	70	100	
		PEPCLD1	Advanced Communication System-2 Lab	2	0+0+2	30	70	100	
	*Certificate/FC/UEC			2		30	70	100	
	Other if any								
		<b>TOTAL</b>		<b>22+2*</b>			<b>700</b>		
IV	Major Project Work With Dissertation	PEPDD01#	Major Project Work With Dissertation	12		30	70	100	
	Industrial Training (Internship)	PEPDE01#	Industrial Training in the fields Related to the Programme with Project Report	08		30	70	100	
			<b>TOTAL</b>		<b>20</b>			<b>200</b>	

#The Code generated by the Department.

L=Lecture, T= Tutorial, P = Practical (Lab)

\* Additional Credit courses (not mandatory in nature)

The Discipline specific courses will be treated as special paper of old pattern as and when needed.

*Umbipathu*

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<b>Department : Pure &amp; Applied Physics</b>		
<b>Academic Year : 2021-2022</b>		
<b>Sr. No.</b>	<b>Programme Code</b>	<b>Name of the Programme</b>
<b>01.</b>	<b>M.Sc. (Electronics)</b>	<b>Dissertation/ Project work followed by seminar (PS/PHY/PD)</b>

**Following students have carried out their Project work/ Internship/  
Field Project/Industrial Training for the academic session 2021-22**

<b>Sr. No.</b>	<b>Name of the Students</b>	<b>Page No ..... To .....</b>
1.	AMITESH SINGH KAUSHIK	3-11
2.	ANKIT SAHU	12-18
3.	DIPENDRA DEWANGAN	19-24
4.	KANTA	25-29
5.	KAVITA SINGH BANAFER	30-38
6.	MOHAMMAD HAIDER ALI	39-47
7.	PRAVEEN KUMAR	48-55
8.	PRITISH KUMAR SAHU	56-58
9.	SEEMA NAIK	59-66
10.	SMRITI	67-76
11.	SURAJ SAHU	77-82
12.	VANSH MAKHIJA	83-88
13.	NAVNEET KUMAR PATEL	89-93
14.	SHIVANI VISHWAKARMA	94-100
15.	ABHISHEK	101-103
16.	GURUDAYAL PATEL	104-110

Type

**गुरु घासीदास विश्वविद्यालय**  
(केन्द्रीय विश्वविद्यालय अधिनियम 2009 क्र. 25 के अंतर्गत स्थापित केन्द्रीय विश्वविद्यालय)  
**कोनी, बिलासपुर - 495009 (छ.ग.)**



**Guru Ghasidas Vishwavidyalaya**  
(A Central University Established by the Central Universities Act 2009 No. 25 of 2009)  
**Koni, Bilaspur - 495009 (C.G.)**

17.	NILAMBER YADAV	111-113
18.	SHARADA KATAILHA	114-117
19.	VIJENDRA KUMAR KATHLE	118-119

*u/bipathu*

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Signature and Seal of the Head