



(ESTD.1956)

OFFICE OF THE PRINCIPAL  
**C.M.DUBEY POST GRADUATE COLLEGE  
BILASPUR (C.G.)**

(Accredited "B+" by NAAC)

An Affiliated College of Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur (C.G.)

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## 2.3.2 USE OF ICT TOOLS FOR EFFECTIVE TEACHING LEARNING PROCESS



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# M.Sc. PHYSICS (2022-23)

SEMESTER-IV



Announce something to your class



vinit nayar

17 Jun



Nature publication



d41586-023-01938-6.pdf



Add class comment...



Sudheer Dubey posted a new material: Particles Detectors

14 Jun



vikas gavel

12 Jun



x-ray (English medium)



X-ray ( R.p. goyal) (Engli...



Add class comment...





vinit nayar

9 Jun



M.tech



Joint Mtech Programme...



Add class comment...



vinit nayar posted a new material: ESR 8

8 Jun



vikas gavel

7 Jun



X-ray questions



IMG\_20230607\_13...



Add class comment...



vinit nayar posted a new material: ESR-2

7 Jun



vinit nayar posted a new material: ESR

7 Jun



1 class comment

Sudheer Dubey posted a new material: Particle accelerator

7 Jun (Edited 7 Jun)



1 class comment

vinit nayar posted a new material: NMR 2

7 Jun



vinit nayar posted a new material: Basic of NMR

7 Jun



physics cmdcollege posted a new material: Scientillation counter

31 May



vinit nayar posted a new material: FERROELECTRICITY

30 May



vikas gavel

30 May



sir classs kitte time lagega



Add class comment...



Aks Ayush

30 May



Sir class ki timing kya hogi aj



**vinit nayar posted a new material: NANO MATERIALS**

26 May



**vinit nayar**

26 May



<https://nanoyou.eu/en/virtual-lab/virtual-experiments6bf8.html?view=alphacontent>

<https://nanoyou.eu/en/virtual-lab/hands-on-activities6bf8.html?view=alphacontent>

**MAY BE OF HELP**



**vinit nayar**

26 May



<https://tinywow.com/tools/write>

<https://pixabay.com/>

**THIS WILL HELP YOU IN CONVERTING PDF TO WORD FOR YOUR PROJECT WORK AND INSERTING IMAGES**



**vinit nayar posted a new material: THERMODYNAMICS OF SC -3 GOOD ONE**

26 May



**vinit nayar posted a new material: BCS THEORY**

26 May



**vinit nayar posted a new material: ATOMIC AND MOLECULAR PHYSICS**

25 May



vinit nayar posted a new material: THERMODYNAMICS OF SC

25 May



3 class comments



vinit nayar

18 May



<https://forms.office.com/r/nkjjLY14cE>



2 class comments



vinit nayar 18 May

Come with your responses, whether it is working



Add class comment...



vinit nayar posted a new material: Career after M.Sc

16 May



vinit nayar posted a new material: Introduction to nano material

9 May



Rabindranath Patra posted a new material: Elementary Idea of nanostructur...

8 May (Edited 8 May)



physics cmdcollege

7 May



<https://www.presentation-process.com/20-minute-beginners-guide-to-powerpoint/>



Add class comment...



physics cmdcollege

7 May (Edited 7 May)



YOU CAN JOIN THIS FREE PRESENTATION COURSE AND GET AN IDEA OF MAKING SLIDES AND WILL BE ABLE TO DOWNLOAD TEMPLATES. JUST GO THROUGH THE ATTACHMENT



Welcome to Presentatio...



Add class comment...



vinit nayar

5 May



जो छात्र निरंतर कक्षाओं में अनुपस्थित हो रहे हैं उनके लिए यह आखरी चेतावनी है कि वह 6 मई से निरंतर कक्षाओं में उपस्थित हो अन्यथा की स्थिति में उनके संदर्भ में उचित निर्णय लिया जावेगा जिसके लिए वे स्वयं जिम्मेदार होंगे। पूर्व में जिन छात्रों ने छुट्टी के लिए आवेदन किया है उस पर जरूर विचार किया जाएगा।

Department of Physics

CMD P G College



Add class comment...



vinit nayar

5 May (Edited 5 May)



[https://www.mycompiler.io/new/asm-x86\\_64](https://www.mycompiler.io/new/asm-x86_64)

This link is to be used on the laptop



Add class comment...



Gagandeep singh Arora

4 May



Lecture 4 on superconductivity



lecture 4 on supercondu...



Add class comment...



vinit nayar posted a new material: Lecture 5 Meissner effect

3 May (Edited 3 May)

vinit nayar posted a new material: Lecture 4 Superconductivity parameters  
3 May



Aks Ayush  
2 May

Microprocessor summary



Adobe Scan May 02, 202...



Add class comment...



Aks Ayush  
2 May

Sir can you please share the lecture 4 of your superconductivity.



Add class comment...



vinit nayar  
2 May

All of you should compulsory enroll in the TCSlon course and get certified. Also send the proof of registration in the department mail



Add class comment...



Aks Ayush  
2 May

Brief content about microprocessor.



R S Goukar.pdf





**Aks Ayush**

2 May



Sir aaj classes conduct nhi hogi kya

**Aks Ayush**

1 May



resistance - resistance is a physical property of a material because of which flow of current oppose.

Formula- resistance=volt/current or  $R = \text{resistivity}(\text{length}/\text{area cross section})$

Unit - ohm

Resistivity - resistivity is physical property of a material that measures how strongly it resists electric current.

In other words - resistivity of material is electric resistance of material unit area per unit length.

Formula - resistivity= $\text{resistance} \times \text{area} / \text{length}$

Unit - ohm-metre

Summary - resistance of matter can be vary with different factors but resistivity of material is like permittivity with indicates how strongly it resists electric current

And  $n\Omega \cdot m$  =nano-ohm-metre

**1 class comment****vinit nayar** 2 May

Nice way to respond



vinit nayar posted a new material: NORMAL AND ANOMALOUS DISPERSION

27 Apr



vinit nayar posted a new material: QUESTIONS AND ANSWERS ON COMPLEX...

26 Apr



Ashutosh Mali

24 Apr



Use this link to understand more virtually the dielectric..

☐ Variation of the dielectri...



Add class comment...



vinit nayar posted a new material: COMPLEX POLARIZATION

24 Apr



vinit nayar posted a new assignment: FREQUENCY DEPENDE... ▶ 22 students

20 Apr



vinit nayar

19 Apr



A TCS ION online course

☐ TCS iON Career Edge - Y...



1 class comment



vinit nayar 2 May

All of you should compulsory enroll in this course and get certified. Also send the proof of registration



Add class comment...



**Aks Ayush**

19 Apr



Sir can you please provide use the derivation for the expression where the relationship between  $\chi$  and  $\mu$  and  $\epsilon$ ..



Add class comment...

**vikas gavel**

19 Apr



some question and answer



polarazablity.pdf



Add class comment...

**Aks Ayush**

18 Apr



Sir classes continue kb se honge ...



Add class comment...

**Gagandeep singh Arora**

18 Apr



Sir humlogo ki class kab se start hogi ?



Add class comment...

**Devashish Patel**

18 Apr



SIR, HUM LOG KA CLASS KAB SE CONTINUE HOGA...??



**vikas gavel**

18 Apr



sir hamara kab se lagega.. 2nd sem valo ka bhi start ho gya

**Shreyansh Shrivastava** posted a new material: Opcode and operands and so...

16 Apr (Edited 17 Apr)

**Sudheer Dubey** posted a new material: Elementary Particles and Detecting S...

12 Apr

**Shreyansh Shrivastava** posted a new material: Flags of 8085 microprocessor

7 Apr (Edited 12 Apr)

**Shreyansh Shrivastava** posted a new material: Flags of 8085 microprocessor

7 Apr (Edited 12 Apr)

**Shreyansh Shrivastava** posted a new material: Flags of 8085 microprocessor

7 Apr (Edited 12 Apr)

**Shreyansh Shrivastava** posted a new material: Pin diagram of 8085 micropro...

7 Apr (Edited 12 Apr)

**vinit nayar**

5 Apr



Visit this link



NAEST 2023



**vinit nayar posted a new material: ORIENTATION POLARIZATION**

4 Apr



**vinit nayar posted a new material: IONIC POLARIZATION**

4 Apr



**Rabindranath Patra posted a new material: Concept of phonons**

1 Apr



**vinit nayar posted a new material: FREQUENCY DEPENDENCE OF DIELECTRI...**

28 Mar



**vinit nayar posted a new material: POLARIZATION MECHANISMS ANIMATION**

26 Mar



**vinit nayar posted a new assignment: Assignment on Dielectrics SAAD-1**

26 Mar (Edited 26 Mar)



1 class comment

**Shreyansh Shrivastava posted a new assignment: Assignment for introducti...**

21 Mar (Edited 24 Mar)



**Shreyansh Shrivastava posted a new material: Introduction of microprocessor**

21 Mar (Edited 21 Mar)



**vinit nayar posted a new assignment: ASSIGNMENT -1 ON SUPERCONDUCTI...**

21 Mar (Edited 25 Mar)



13 class comments

vinit nayar posted a new material: PROPERTIES OF SUPER CONDUCTORS LE...  
21 Mar



vinit nayar posted a new material: EXPLANATION OF SUPERCONDUCTIVITY ...  
21 Mar



Ashutosh Mali  
20 Mar



Dielectric summary



Adobe Scan 20-Mar-202...



1 class comment



vinit nayar 20 Mar

It is good to see your response.



Add class comment...



vinit nayar posted a new material: Let's start with the history of supercondu...  
20 Mar (Edited 21 Mar)



3 class comments

physics cmdcollege posted a new material: PHYSICS OF ATOM AND MOLEC...  
19 Mar



physics cmdcollege posted a new material: Dielectrics  
17 Mar



Devashish Patel  
17 Mar



## Question Paper 2018



QP-CD-4-2018.pdf



Add class comment...



Devashish Patel

17 Mar



## Question Paper 2020



QP-CD-4-2020



Add class comment...



Devashish Patel

17 Mar



## Question paper 2019



QP-CD-4-2019.pdf



Add class comment...



vinit nayar

1 Mar



Welcome to the virtual classroom.



1 class comment



vikas gavel 2 Mar

hello sir



Add class comment...





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People

Marks



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## M.Sc. PHYSICS (2022-23)

SEMESTER-II



Announce something to your class



Jyoti Upadhyay

31 May



## Unit 3 Electrodynamics

1. Transformation of differential operator
2. Invariance of D' Alembertian operator  $\square^2$
3. Transformation eqn for J and  $\rho$
4. Transformation eqn for A and  $\phi$

(Please correct if anything is wrong.)  
I can explain all these topics properly.



Unit 3 electrodynamics ....



1 class comment



vinit nayar 1 Jun

Nicely compiled



Add class comment...



Jyoti Upadhyay

31 May





## M.Sc. PHYSICS (2022-23)

SEMESTER-II



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Add class comment...



vinit nayar posted a new material: CMRR

26 May



vinit nayar

25 May



THESE NINE RESOURCES WILL BE DISCUSSED WITH YOU IN THE COMING CLASSES, SO GO THROUGH THIS.



3 class comments



Jyoti Upadhyay 25 May



Add class comment...



vinit nayar posted a new material: Propagation of electromagnetic waves in ...

25 May (Edited 25 May)



vinit nayar posted a new material: A simple model for dynamic conductivity.

25 May (Edited 25 May)



vinit nayar posted a new material: EM WAVE PROPAGATION IN CONDUCTOR...

25 May (Edited 25 May)



vinit nayar posted a new material: EM WAVE PROPAGATION IN CONDUCTOR...

25 May (Edited 25 May)





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25 May (Edited 25 May)

vinit nayar posted a new material: Plane electromagnetic waves in a non-co...

25 May (Edited 25 May)

vinit nayar posted a new material: EM WAVES IN FREE SPACE PART-II

25 May (Edited 25 May)

vinit nayar posted a new material: EM WAVES IN FREE SPACE -PART-1

25 May (Edited 25 May)



Jyoti Upadhyay

25 May

Geometry of space & time (4D vector)



Geometry\_of\_space\_&\_t...



Add class comment...



physics cmdcollege

7 May

<https://www.presentation-process.com/20-minute-beginners-guide-to-powerpoint/>



Add class comment...



physics cmdcollege

7 May



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Add class comment...



vinit nayar

5 May



जो छात्र निरंतर कक्षाओं में अनुपस्थित हो रहे हैं उनके लिए यह आखरी चेतावनी है कि वह 6 मई से निरंतर कक्षाओं में उपस्थित हो अन्यथा की स्थिति में उनके संदर्भ में उचित निर्णय लिया जावेगा जिसके लिए वे स्वयं जिम्मेदार होंगे। पूर्व में जिन छात्रों ने छुट्टी के लिए आवेदन किया है उस पर जरूर विचार किया जाएगा।

Department of Physics

CMD P G College



Add class comment...



Aditi paikra

4 May



Theory of relativity



summary of class.pdf



Add class comment...



Smriti Gupta

4 May



Summary of STR



summary of STR.pdf



Add class comment...



## M.Sc. PHYSICS (2022-23)

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Add class comment...



Nilesh Singh Koram

3 May



Summary of the class



Relativistic electrodyna...



Add class comment...



sandhya Kurre

3 May



Summary on special theory of relativity



Sandhya Kurre -summar...



Add class comment...



Nomeshe Kumar Verma

3 May



Electrodynamics, previous year question unit. 3



Electrodynamics Previou...



Add class comment...



## M.Sc. PHYSICS (2022-23)

SEMESTER-II



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Add class comment...



Atanu Das Adhikary

3 May



Special Theory of Relativity  
Summary of the class (3rd May, 2023)



Summary.pdf



Add class comment...



ARUN PATEL

3 May



Summary of STR



summary of STR.pdf



1 class comment



vinit nayar 3 May

Good attempt



Add class comment...



vinit nayar

2 May



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## M.Sc. PHYSICS (2022-23)

SEMESTER-II

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Rabindranath Patra posted a new assignment: Assignment on solar cell  
1 May (Edited 1 May)

**Ishi Pathariya**

1 May

Electrodynamics previous years questions unit - 1 (2017, 18,19)



electrodynamics questi...



Add class comment...

**vinit nayar**

29 Apr

ANY ONE OF YOU SHOULD POST ALL THE QUESTIONS ASKED ON THE FOLLOWING TOPIC WHICH WERE ASKED IN 2017,18,19 INCLUDING SHORT ANSWER QUESTIONS IN PDF FORM

Plane electromagnetic waves in free space. Plane electromagnetic waves in a non-conducting isotropic medium (i.e. Isotropic dielectrics). Plane electromagnetic waves in Anisotropic Non-conducting medium (Anisotropic dielectric), Plane electromagnetic waves in conducting medium. A simple model for dynamic conductivity. Propagation of electromagnetic waves in ionized gases.



Add class comment...

**vinit nayar posted a new material: POYNTINGS THEOREM**

27 Apr (Edited 24 May)

**Sudheer Dubey posted a new material: Vector Integration**

20 Apr

**vinit nayar**

19 Apr

6/20/23, 2:41 PM

M.Sc. PHYSICS (2022-23) SEMESTER-II

P

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vinit nayar posted a new assignment: WRITE A SUMMARY OF ...

12 students

18 Apr (Edited 24 May)

Sudheer Dubey posted a new assignment: Assignment-2

18 Apr

Sudheer Dubey posted a new material: Curl of a vector field

12 Apr

Jyoti Upadhyay

8 Apr

Electrodynamics, Unit 4 Topics

PDF

order of study of electro...

Add class comment...

Sudheer Dubey posted a new material: Divergence of a vector field

5 Apr

vinit nayar

5 Apr

Visit this link

NAEST 2023

https://classroom.google.com/c/NTE2NTY5NDIzNjg0

8/10

## M.Sc. PHYSICS (2022-23)

SEMESTER-II

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vinil nayar posted a new material: EQUATION OF CONTINUITY  
4 Apr (Edited 24 May)



Sudheer Dubey posted a new material: Transverse Vibration of a Straight Stri...  
3 Apr



Sudheer Dubey posted a new material: Gradient of a scalar field  
3 Apr



Sudheer Dubey posted a new material: Scalar and Vector Field  
31 Mar



Sudheer Dubey posted a new material: Vector Calculus  
30 Mar



Sudheer Dubey posted a new material: Product of two, three and four vectors  
29 Mar



Sudheer Dubey posted a new material: Equation of Continuity  
28 Mar (Edited 29 Mar)



Sudheer Dubey posted a new assignment: Assignment on Vector Algebra  
28 Mar (Edited 12 Apr)



Chiranjit Das posted a new material: PYQ 2019  
27 Mar



Chiranjit Das posted a new material: PYQ 2018  
27 Mar





Marks

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