
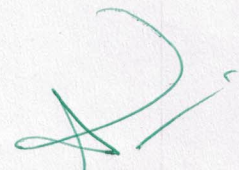


Department of Physics

To find out attainment of programme outcomes (POs), Programme specific outcomes (PSOs), and course outcomes (COs), following measurable factors have been taken into consideration during the sessions.

S.no	measurable factors	2020-21	2019-20	2018-19	2017-18	2016-17
1	UG final University Merit Achiever	NIL	NIL	NIL	NIL	NIL
2	UG final Year Pass Percentage	100%	100%	92%	97%	86%
3	Project by students	NIL	Yes	Yes	Yes	Yes
4	Quiz	NIL	Yes	Yes	Yes	Yes
5	Models Constructions	Yes	Yes	Yes	-	-
6	Entrepreneurial / Skill Trainings	NIL	NIL	NIL	NIL	NIL
7	Students Presentation / Seminar	Yes	Yes	Yes	Yes	Yes
8	Experimental Learning in UG Programme	Yes	Yes	Yes	Yes	Yes
9	Value Aided Course	NIL	NIL	NIL	NIL	NIL
10	Webinar	Yes	-	-	-	-
11	Certificate Course	Yes	Yes	-	-	-
12	Guest Lectures / Expert Lectures	Yes	Yes	Yes	NIL	NIL

  
HOD

  
Principal

सकीय इंदिरा गांधी स्नातकोत्तर विद्यालय  
वैशाली नगर मिर्जापुर

INDIRA GANDHI GOVT. ARTS AND COMMERCE PG  
COLLEGE VAISHALI NAGAR, BHILAI

PARTICIPANT'S – DETAIL

2020-21

PHYSICS DEPARTMENT

S.No.	EVENTS	DATES	REGISTERED PARTICIPANTES
1	Seminar	27-4-2021	28
2	Project	-	-
3	Quiz	-	-
4	Workshop	3-5-2020 to 8-5-2020	99
5	Guest Lecture	26-4-2020 to 30-4-2020	97
6	poster	17 sep 2020	71

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भौतिक शास्त्र विभाग  
इं. गां. शासकीय कला विज्ञान  
एवं वाणिज्य महाविद्यालय  
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# INDIRA GANDHI GOVT. ARTS AND COMMERCE PG COLLEGE

VAISHALI NAGAR, BHILAI

## Report on seminar 2020-21

### One Day Seminar

Date: 27-04-2021

No of participants – 28

Department:-Physics

The seminar was conducted by the undergraduate students of B.Sc. part 2 and part 3 (math's group) in Physics Department on 6<sup>th</sup> Jan 2021. The seminar were given on "LASER" by BSc Part 2 students and "QUANTUM MECHANICS" were covered by B.sc Part 3 students

The screenshot shows a Google Meet interface. The main window displays a presentation slide with handwritten text and diagrams. The text includes "Fresnel's half period zone method" and "Half period zones". The diagrams show a circular aperture with a central point and a lens-like structure. The text also includes "The  $\pi$  phase difference  $\lambda/2$  path" and "Half period zones  $\pi b \lambda$  Int circle". The meeting details at the bottom show the date and time: "Apr 27, 2021 11:33:57 AM India Standard Time". The location is listed as "Unnamed Road Jamul Durg Chhattisgarh".

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Report of Workshop/Working Model, 2020-2021

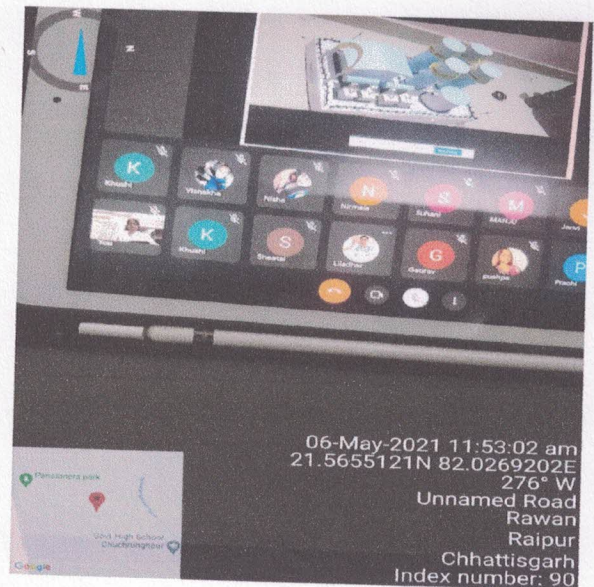
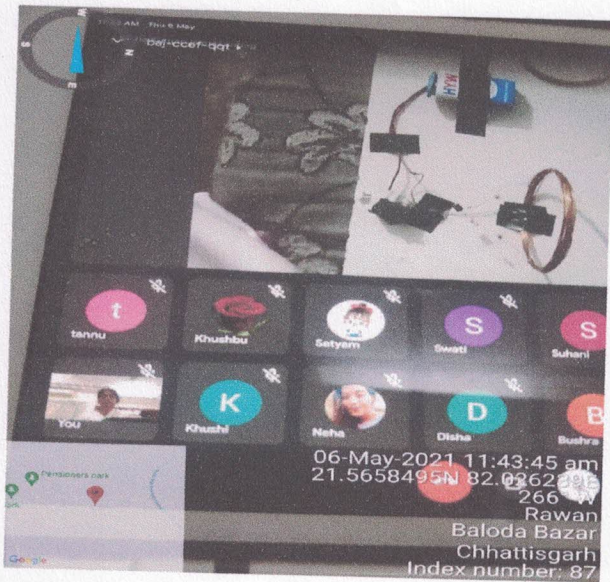
Date: 3<sup>rd</sup> May – 8<sup>th</sup> May 2020


No of Students: 99


Topic: **Low Cost Instrument**

The one week long workshop organized by the students of Indira Gandhi Govt. Collage Vaishali Nagar, Bhilai on **Low cost instrument**. This was conducted in *Physics Department* from 3-5-20 to 8-5-20. In the presence of Dr. Smriti Agrawal.

In this workshop, undergraduate students of math's group participated (99 Students). The students have made the wonderful instrument at very low price.



  
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VAISHALI NAGAR, BHILAI

**Report on Lecture Series/Guest Lecture 2020-21**

Date 26<sup>th</sup> April to 30<sup>th</sup> April-2021

No of Students: 97

**Topic: WAVE OPTICS AND MECHANICS**

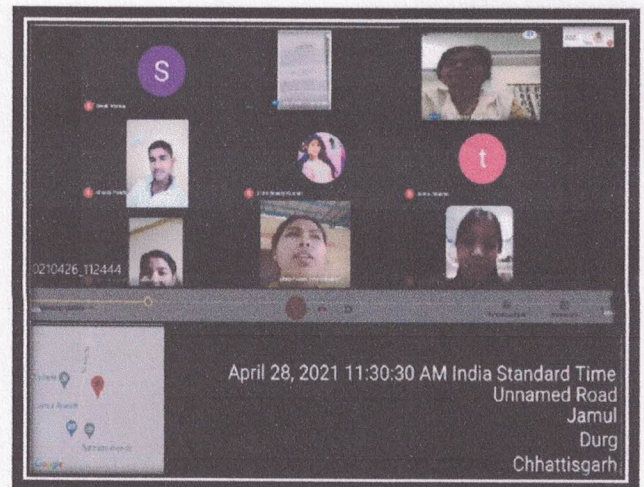
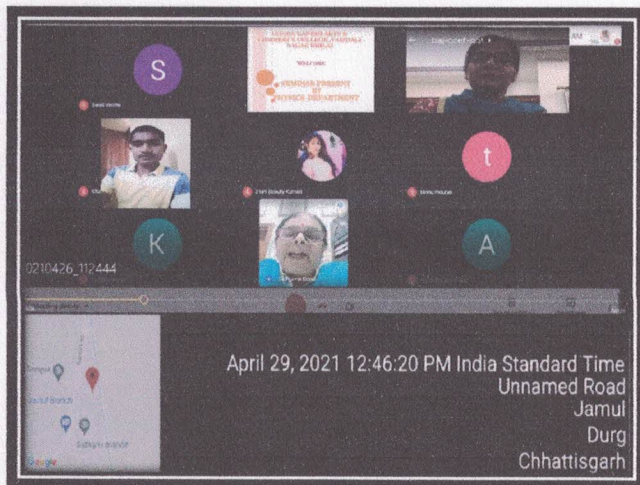
A lecture series on “**Wave Optics and Mechanics**” was held from 26<sup>th</sup> April to 30<sup>th</sup> April 2021 virtually. It was organized by physics department for undergraduate students. Nearly 97 students from B.Sc. Part1, 2 and 3 had attended this lecture week, in this lecture series professors from different colleges were invited as resource person. Dr. Smt. Kusumanjali Deshmukh explained diffraction phenomenon wonderfully. Dr. Manish Kaira gave a detailed explanation of half zone period Dr. Sitieshwari, Dr. Purnima Bose, Dr. Abhishek explained praunhoffer diffraction, Kepler's Law of planetary motion, concept of gradient and divergence. The programme was inaugurated by the Principal Madam Dr. Smt. Alka Meshram. The purpose of this lecture week was to create curiosity among the students regarding different phenomenon in their surrounding and to utilize their times and channelize their energy.

(Dr. Smriti Agrawal)

Asst. Professor, Physics

Indira Gandhi Govt. Arts and Commerce PG College

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INDIRA GANDHI GOVT. ARTS AND COMMERCE PG COLLEGE  
VAISHALI NAGAR, BHILAI

Report on Poster Making Competition 2020-21

Topic— corona awareness

No of Students: B.Sc. Part 1 – 20

No of Students: B.Sc. Part 2 – 25

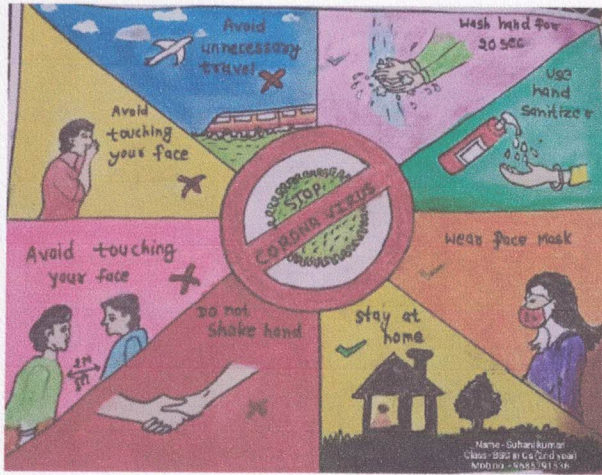
No of Students: B.Sc. Part 3 – 26

A Poster Competition was organized by the Physics Department on 17<sup>th</sup> Sept 2020. Students of B.Sc. part 1, B.Sc. part 2 and B.Sc. part 3 were participated. Students had made the wonderful posters. Following are the winners: -

1<sup>st</sup> Position — Suhani kumari

2<sup>nd</sup> Position — Indrajeet Sahu

3<sup>rd</sup> Position — Priti kumari Sahu



Indira Gandhi govt arts and commerce  
College Vaishali Nagar  
Name - Indrajeet Sahu  
Class - Bsc (cs) 2nd year  
Mobile no. - 6261425186



Indira Gandhi Government arts and  
commerce College Vaishali Nagar  
name - priti Kumari Soni  
class - bsc 2nd year (cs)  
mobile no. 9589712860



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एवं वाणिज्य महाविद्यालय  
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INDIRA GANDHI GOVT. ARTS AND COMMERCE PG  
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PARTICIPANT'S – DETAIL

2019-20

PHYSICS DEPARTMENT

S.No.	EVENTS	DATES	REGISTERED PARTICIPANTES
1	Seminar	3-01-2020	38
2	Project	-	5
3	Quiz	3-09-19	28-Part1
4-09-19		24-Part 2	
5-09-19		25-Part3	
4	Workshop	19-12-2019	55
5	Guest Lecture	13-2-2020	37

  
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एवं वाणिज्य महाविद्यालय  
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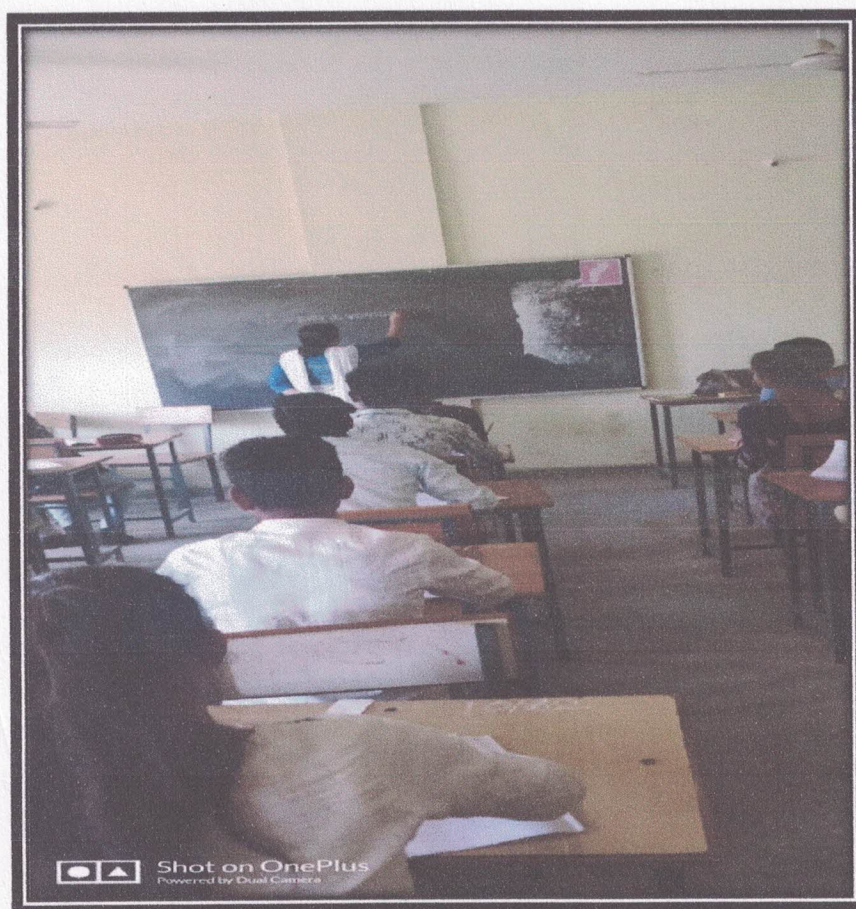
**Report on Guest Lecture 2019-20**

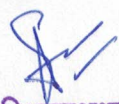
Date: 13<sup>th</sup> Feb 2020


No of Students: 37

**Topic: QUANTUM NUMBER**

A guest lecture on topic "Quantum number" was organized by Physics Department for undergraduate students of B.Sc. Part 3. Resource person was Dr. Kanchana Sahi from Bhilai Mahila Mahavidhayala.



  
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# INDIRA GANDHI GOVT. ARTS AND COMMERCE PG COLLEGE

VAISHALI NAGAR, BHILAI

## PHYSICS DEPARTMENT

### Quiz Report 2019-20

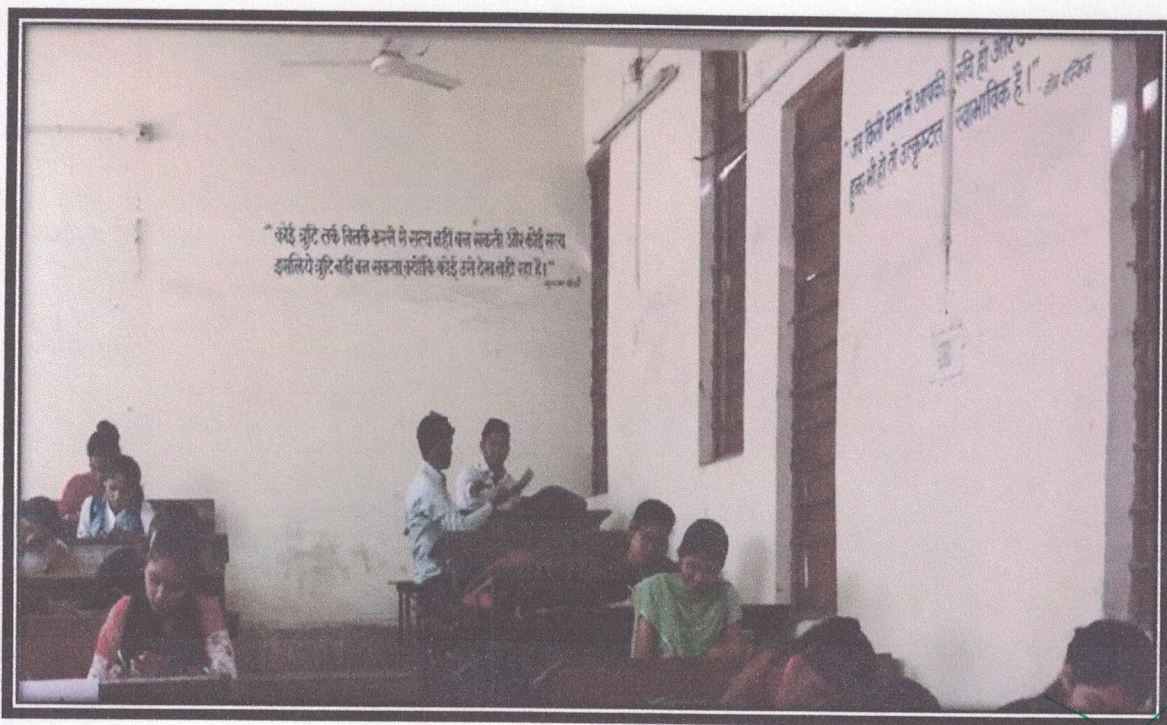
No of Students – 28 (B.Sc. Part – 1)


No of Students – 24 (B.Sc. Part – 2)

No of Students – 25 (B.Sc. Part – 3)

Quiz was conducted in Physics Department on 3-09-19, 4-09-19 and 5-09-19 respectively on 3-09-19 B.Sc. Part 1 students participated in quiz. The topic of quiz was “ELECTROSTATICS” on 4-09-19 the quiz was conducted for B.Sc. Part 2 students on topic “THERMODYNAMICS” on 5-09-19 B.Sc. Part 3 students was participated in the quiz topic was “SEMICONDUCTOR”.

This type of competition encourage the students to go deep in the subject.



  
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Report on seminar 2019-20

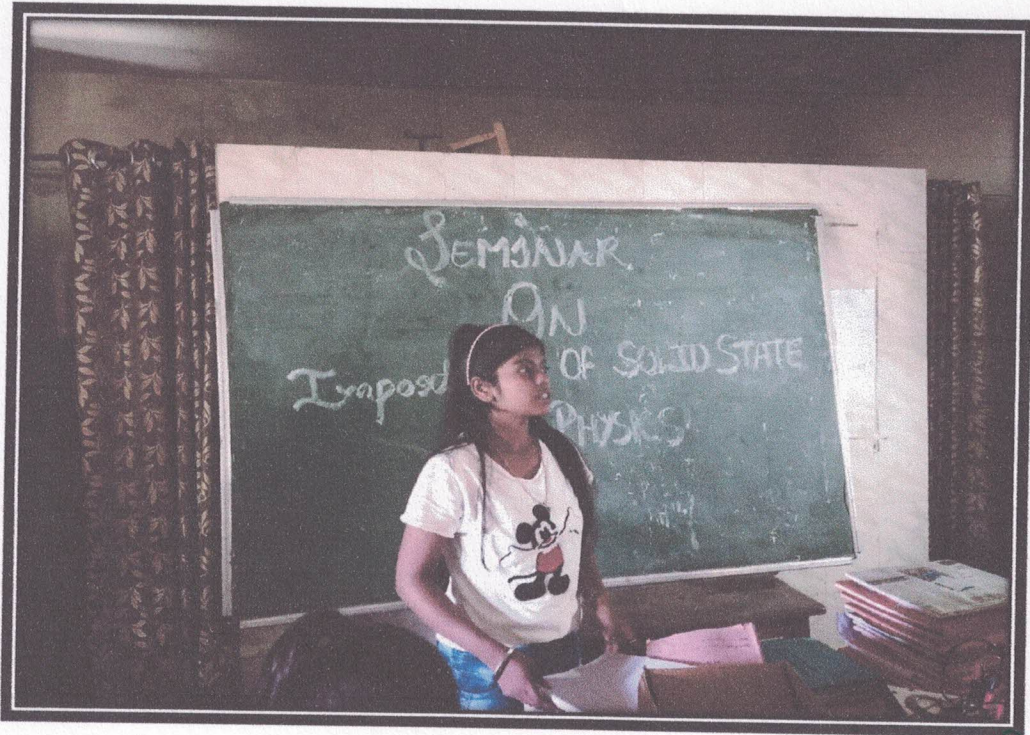
One Day Seminar

Date: 03 -01-2020

No of participants – 38

Department:-Physics

The seminar was conducted by the undergraduate students of B.Sc. part 2 and part 3 (math's group) in Physics Department on 3<sup>th</sup> Jan 2020. The seminar were given on "WAVES" by BSc Part 2 students and "SOLID STATE" were covered by B.sc Part3 students.



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Principal

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**Report of Workshop/Working Model, 2019-2020**

Date: 10<sup>th</sup> Dec 2019

No of Students: 55

**Topic: Low Cost Instrument**

The one day workshop organized by the students of Indira Gandhi Govt. Collage Vaishali Nagar, Bhilai on **Low cost instrument** .This was conducted in *Physics Department* on 10<sup>th</sup> Dec 2019 in the presence of Dr. Smriti Agrawal.

In this workshop, undergraduate students of math's group participated (99 Students). The students have made the wonderful instrument at very low price.



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*[Handwritten signature]*  
Principal  
Indira Gandhi Govt. P.G. College  
Vaishali Nagar, Bhilai


INDIRA GANDHI GOVT. ARTS AND COMMERCE PG  
COLLEGE VAISHALI NAGAR, BHILAI


PARTICIPANT'S – DETAIL

2018-19

PHYSICS DEPARTMENT

S.No.	EVENTS	DATES	REGISTERED PARTICIPANTES
1	Seminar	15-01-19	32
2	Project	-	9
3	Quiz	28-08-18 28-08-18 31-08-18	33-Part1 31-Part2 32-Part3
4	Workshop	3-10-2018	48
5	Guest Lecture	10-1-2019	42

  
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मण्डल विश्वविद्यालय  
वैशाली नगर, भिलाई

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Report on seminar 2018-19

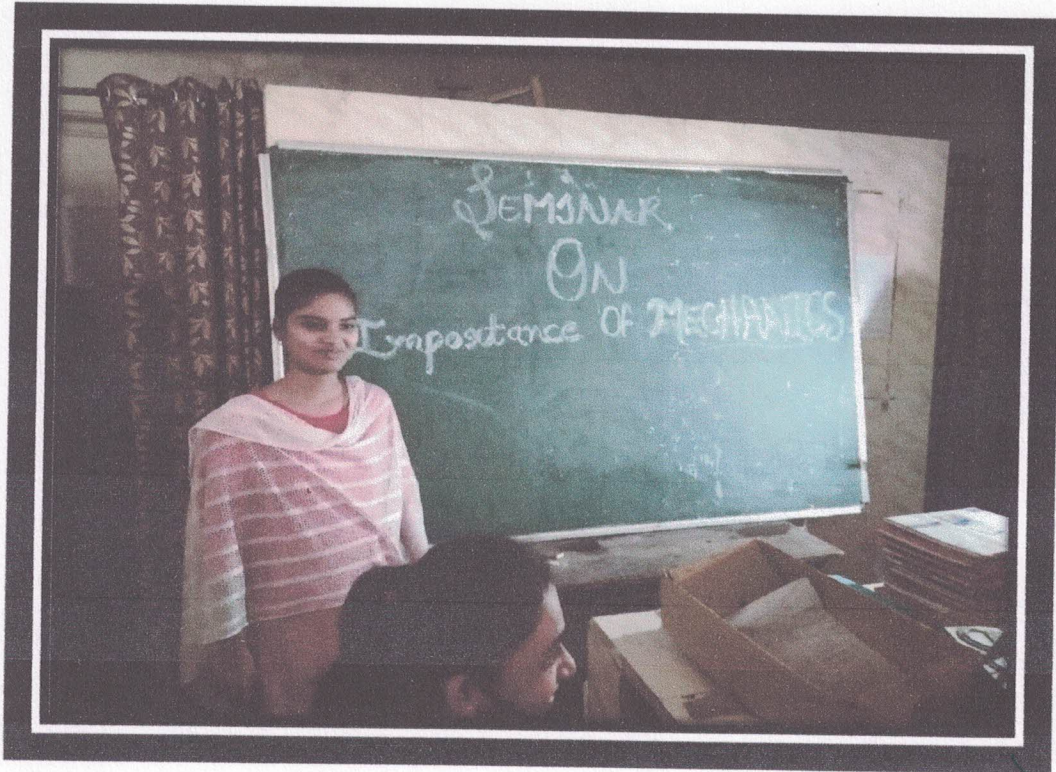
One Day Seminar

Date: 15 -01-2019

No of participants – 32

Department:-Physics

The seminar was conducted by the undergraduate students of B.Sc. part 2 and part 3 (math's group) in Physics Department on 15<sup>th</sup> Jan 2019. The seminar were given on "SOLID State Physics" by BSc Part 2 students and "MECHANICS" B.sc Part3 students.





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एवं वाणिज्य महाविद्यालय  
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# INDIRA GANDHI GOVT. ARTS AND COMMERCE PG COLLEGE

VAISHALI NAGAR, BHILAI


## Report on PROJECT

YEAR 2018-2019

Undergraduate students of Physics Department of Indira Gandhi Govt. Collage Vaishali Nagar Bhilai have made the wonderful projects on different topics under the guidance of HOD Physics.

No. of Students = 9

Name of Students	Topics	Class
1.Swati Sahu	Zener Diode	Bsc III(Maths)
2.Payal	Wind Mill	Bsc II(Maths)
3.Reshmi	SHM	Bsc II(Maths)
4.Mahima	SHM	Bsc II(Maths)
5.Sarita Rao	FET	Bsc II(Maths)
6.Neha Ray	Air Steam Boat	Bsc II(Maths)
7.S.P. Vijay Kumar	Transmision Grating	Bsc III(Maths)
8.Om Prakash	Hydrolic Generator	Bsc III
9.Pushpa	PN Junction Diode	Bsc III



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# INDIRA GANDHI GOVT. ARTS AND COMMERCE PG COLLEGE

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## PHYSICS DEPARTMENT

### Quiz Report 2018-19

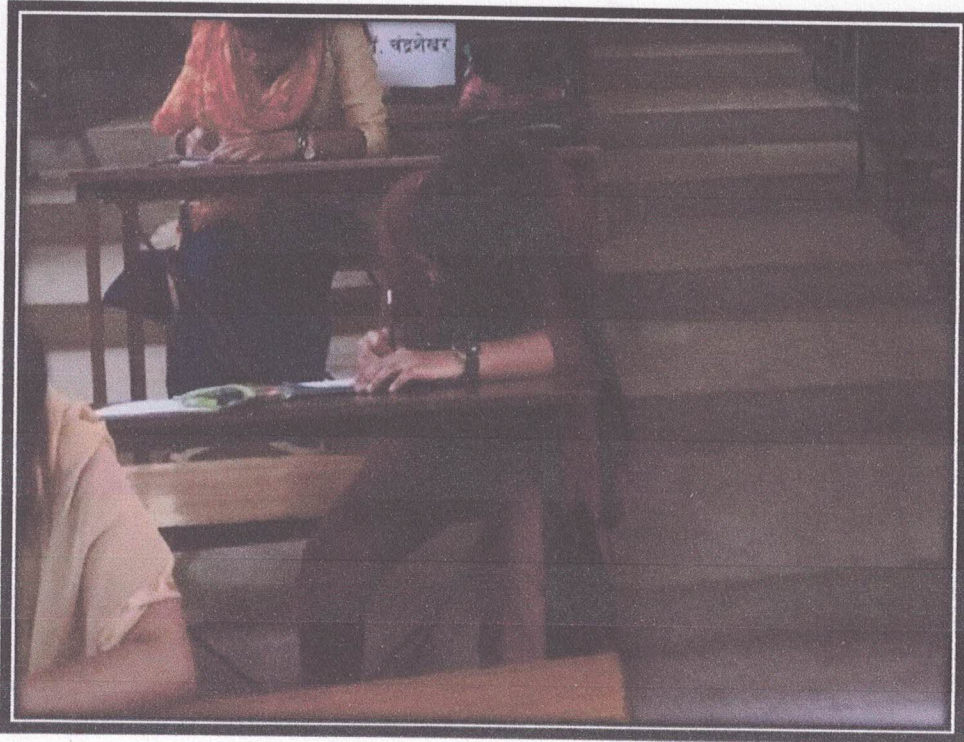
No of Students – 33 (B.Sc. Part – 1)


No of Students – 31 (B.Sc. Part – 2)


No of Students – 32 (B.Sc. Part – 3)

Quiz was conducted in Physics Department on 28-08-18, 28-08-18 and 31-08-18 respectively. On 28-08-18 B.Sc. Part 1 students participated in quiz. The topic of quiz was “ELECTROSTATICS”, on 28-08-18 the quiz was conducted for B.Sc. Part 2 students on topic “THERMODYNAMICS”. 31-08-18 B.Sc. Part 3 students was participated in the quiz, topic was “SEMICONDUCTOR”.

This type of competition encourage the students to go deep in the subject.



  
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**Report of Workshop/Working Model, 2018-2019**

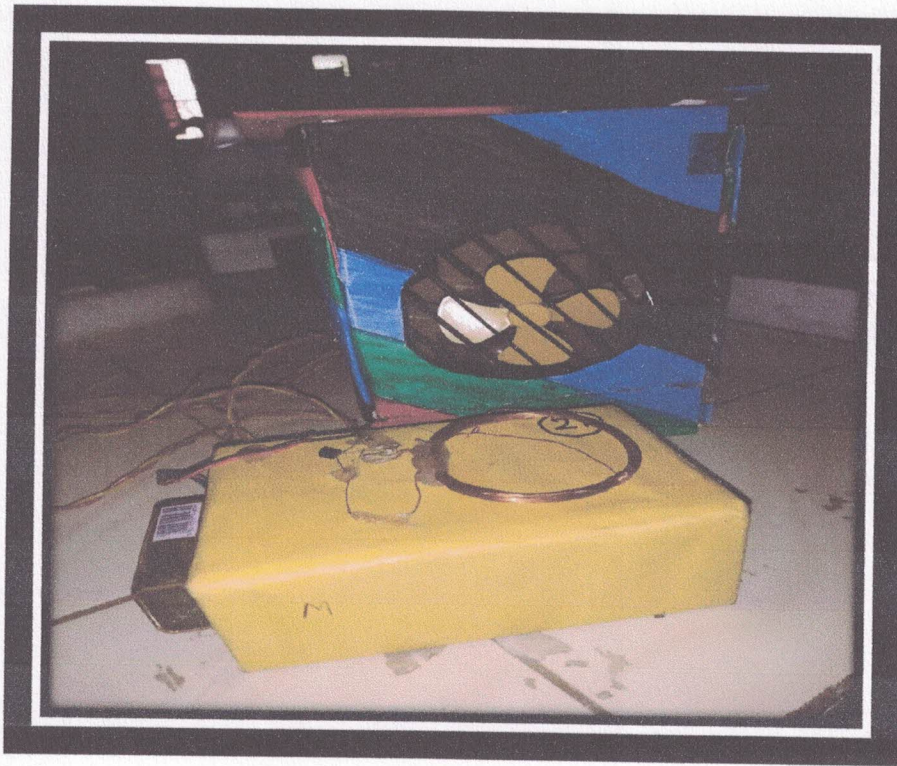
Date: 3<sup>rd</sup> Oct 2018

No of Students: 48

**Topic: Low Cost Instrument**

The one day workshop organized by the students of Indira Gandhi Govt. Collage Vaishali Nagar, Bhilai on **Low cost instrument** .This was conducted in *Physics Department*\_on 3 Oct 2018, in the presence of Dr. Smriti Agrawal.

In this workshop, undergraduate students of math's group participated (48 Students). The students have made the wonderful instrument at very low price.





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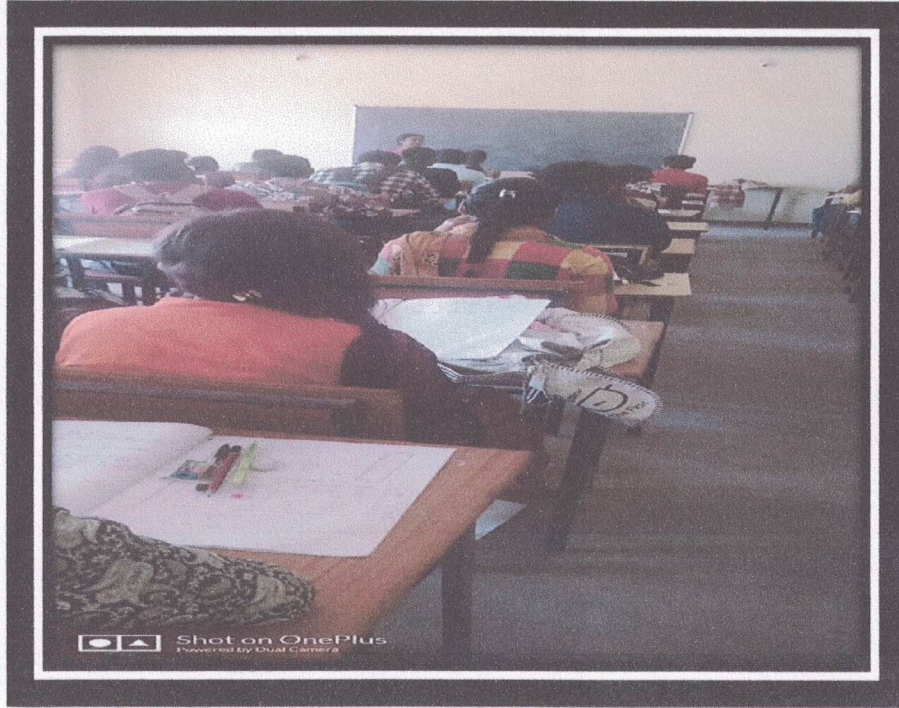
**Report on Guest Lecture 2018-19**


Date: 10<sup>th</sup> Jan 2019

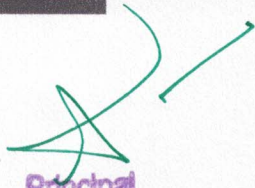
No of Students: 42

**Topic: RELATIVITY**

A guest lecture on topic "RELATIVITY" was organized by Physics Department for undergraduate students of B.Sc. Part1, 2 and 3. Resource person was Dr. Meera Gupta from Govt. Girls Collage Durg.



  
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INDIRA GANDHI GOVT. ARTS AND COMMERCE PG  
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PARTICIPANT'S – DETAIL

2017-18

PHYSICS DEPARTMENT

S.No.	EVENTS	DATES	REGISTERED PARTICIPANTES
1	Seminar	3-01-18	38
2	Project	-	9
3	Quiz	4-09-17 5-09-17 6-09-17	25-Part1 22-Part2 28-Part3
4	Workshop	21-1-2017	39
5	Guest Lecture	15-01-18	35

  
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Report on seminar 2017-18

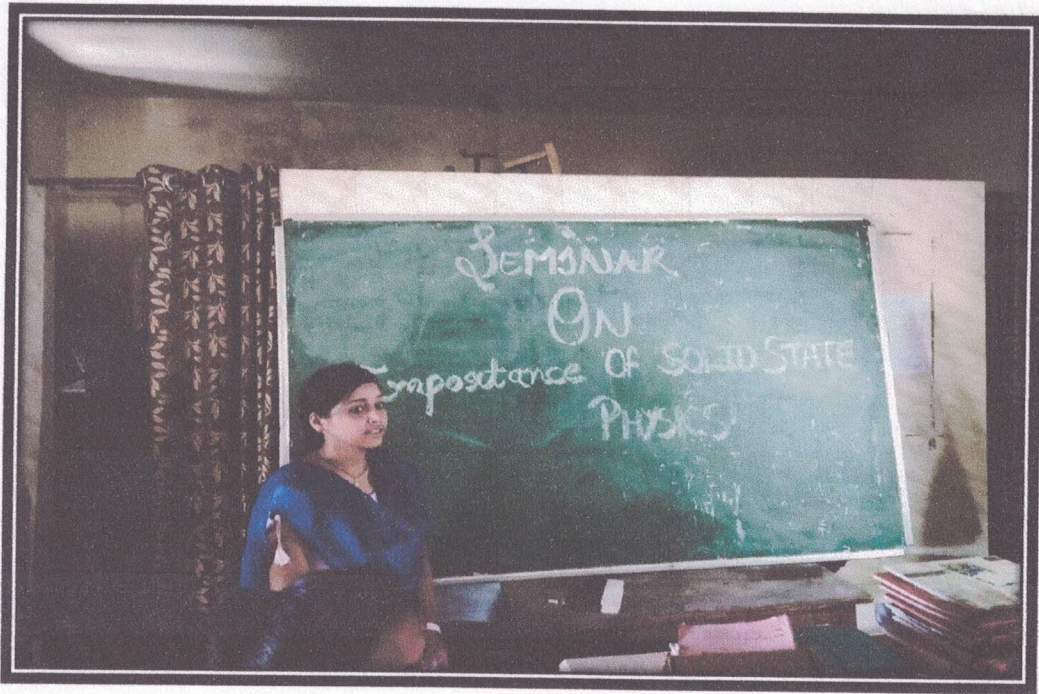
One Day Seminar


Date: 03 -01-2018


No of participants – 38

Department:-Physics

The seminar was conducted by the undergraduate students of B.Sc. part 2 and part 3 (math's group) in Physics Department on 3<sup>th</sup> Jan 2018. The seminar were given on "SOLID STATE" by BSc Part 2 students and B.sc Part3 students.



  
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एवं वाणिज्य महाविद्यालय  
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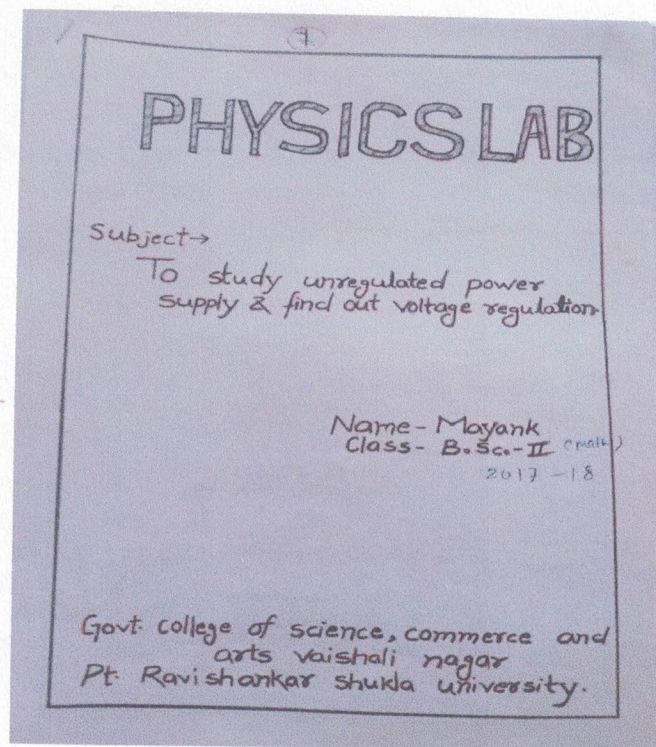
## Report on PROJECT

YEAR 2017-2018

Undergraduate students of Physics Department of Indira Gandhi Govt. Collage Vaishali Nagar Bhilai have made the wonderful projects on different topics under the guidance of HOD Physics.

No. of Students = 9

Name of Students	Topics	Class
1.Tikeshwari Sahu	Transmission Grating	Bsc III(C.S.)
2.Mali	FET	Bsc III(C.S.)
3.Bharti	Bridge Rectifire	Bsc III(C.S)
4.Manish Kumar	Laser	Bsc II(Maths)
5.Sangeeta Kumari Gupta	Adiabatic Expansion	Bsc II
6.Priyanka	CRO	Bsc II(C.S)
7.Mayank	Unregulated Power Supply	Bsc II(Maths)
8.Himanshu	Energy of salt water	Bsc II(Maths)
9.Salini Sanu	Wind Energy	Bsc II(Maths)
10.Arti Singh	Zener Diode	Bsc III(C.S.)



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भौतिक शास्त्र विभाग  
इ. गां. शासकीय कला विज्ञान  
राज. वाणिज्य महाविद्यालय

Principal  
Indira Gandhi Govt. P.G. College  
vaishali Nagar, Bhilai

INDIRA GANDHI GOVT. ARTS AND COMMERCE PG COLLEGE

VAISHALI NAGAR, BHILAI

PHYSICS DEPARTMENT

Quiz Report 2017-18

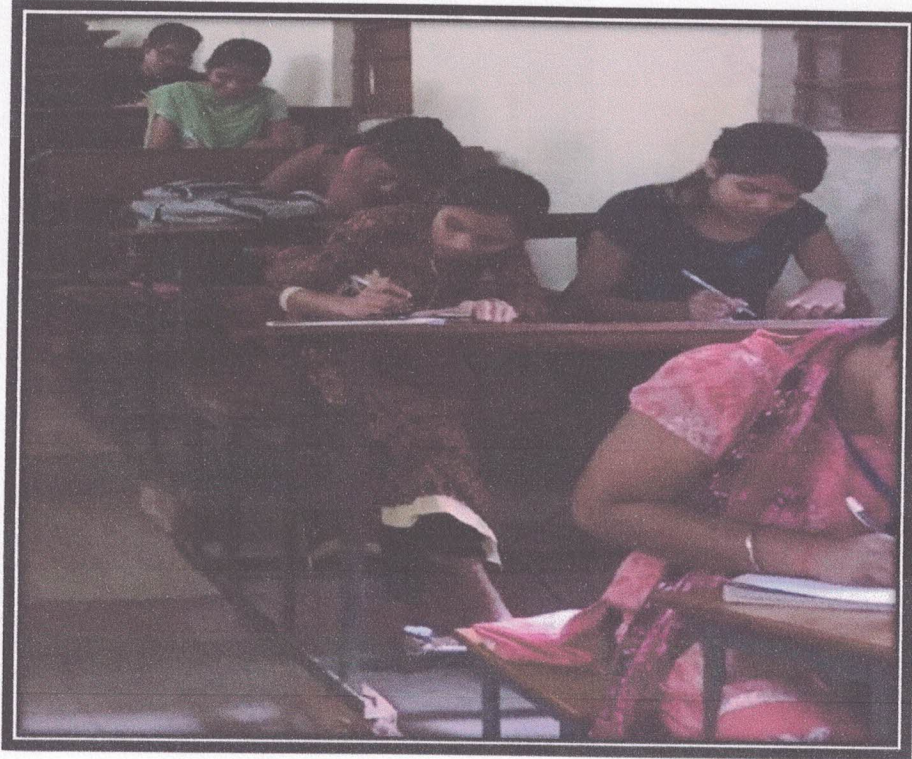
No of Students – 25 (B.Sc. Part – 1)

No of Students – 22 (B.Sc. Part – 2)

No of Students – 28 (B.Sc. Part – 3)

Quiz was conducted in Physics Department on 4-09-17, 5-09-17 and 6-09-17 respectively .On 04-09-17 B.Sc. Part 1 students participated in quiz. The topic of quiz was “ELECTROSTATICS”, on 5-09-17 the quiz was conducted for B.Sc. Part 2 students on topic “THERMODYNAMICS”. 6-09-17 B.Sc. Part 3 students was participated in the quiz, topic was “SEMICONDUCTOR”.

This type of competition encourage the students to go deep in the subject.



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INDIRA GANDHI GOVT. ARTS AND COMMERCE PG COLLEGE  
VAISHALI NAGAR, BHILAI

Report of Workshop/Working Model, 2017-2018

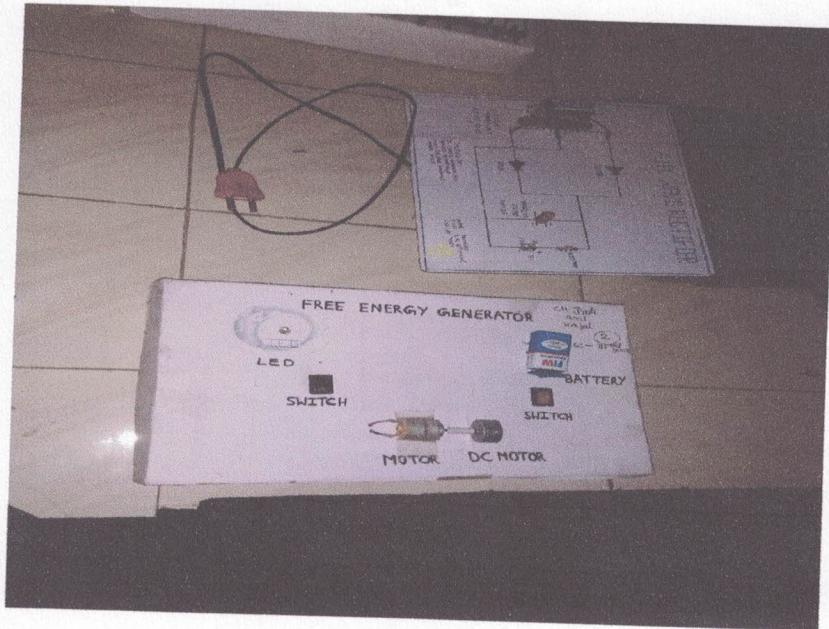
Date: 21<sup>st</sup> Nov 2017

No of Students: 39

**Topic: Low Cost Instrument**

The one day workshop organized by the students of Indira Gandhi Govt. Collage Vaishali Nagar, Bhilai on **Low cost instrument**. This was conducted in *Physics Department* from 21<sup>st</sup> Nov 2017 in the presence of Dr. Smriti Agrawal.

In this workshop, undergraduate students of math's group participated (39 Students). The students have made the wonderful instrument at very low price.



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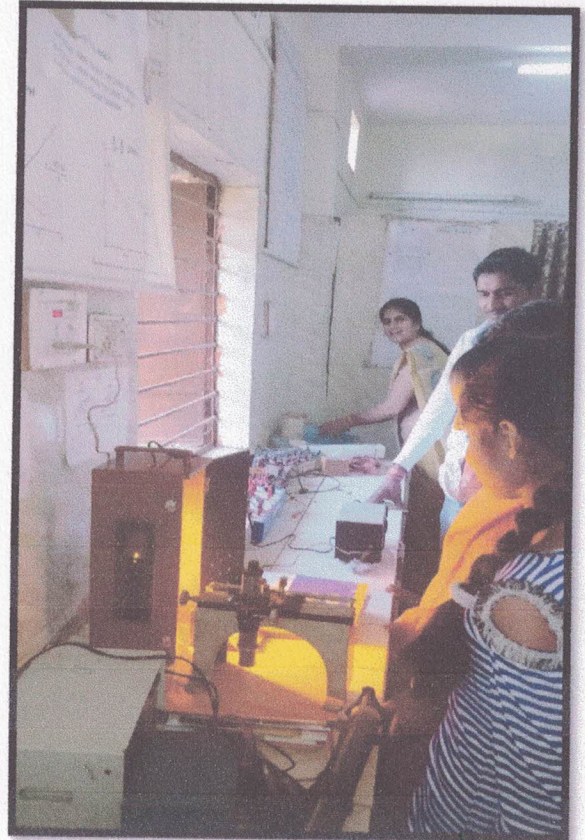
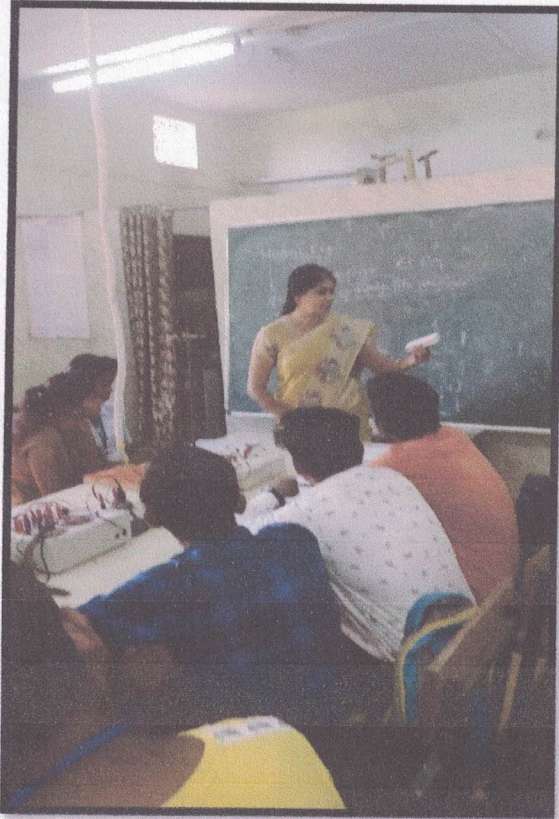
**Report on Guest Lecture 2017-18**

Date: 15<sup>th</sup> Jan 2018

No of Students: 35

**Topic: NEWTONS RING**

A guest lecture on topic "Newton's ring" was organized by Physics Department for undergraduate students of B.Sc. Part1, 2 and 3. Resource person was Dr. Kushmanjali Deshmukh from Government College Jamul.



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PARTICIPANT'S – DETAIL

2016-17

PHYSICS DEPARTMENT

S.No.	EVENTS	DATES	REGISTERED PARTICIPANTES
1	Seminar	16-01-17	37
2	Project	-	10
3	Quiz	2-09-16 3-09-16 6-09-16	30-Part1 20-Part2 26-Part3
4	Workshop	-	-
5	Guest Lecture	-	-



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Report on seminar 2016-17

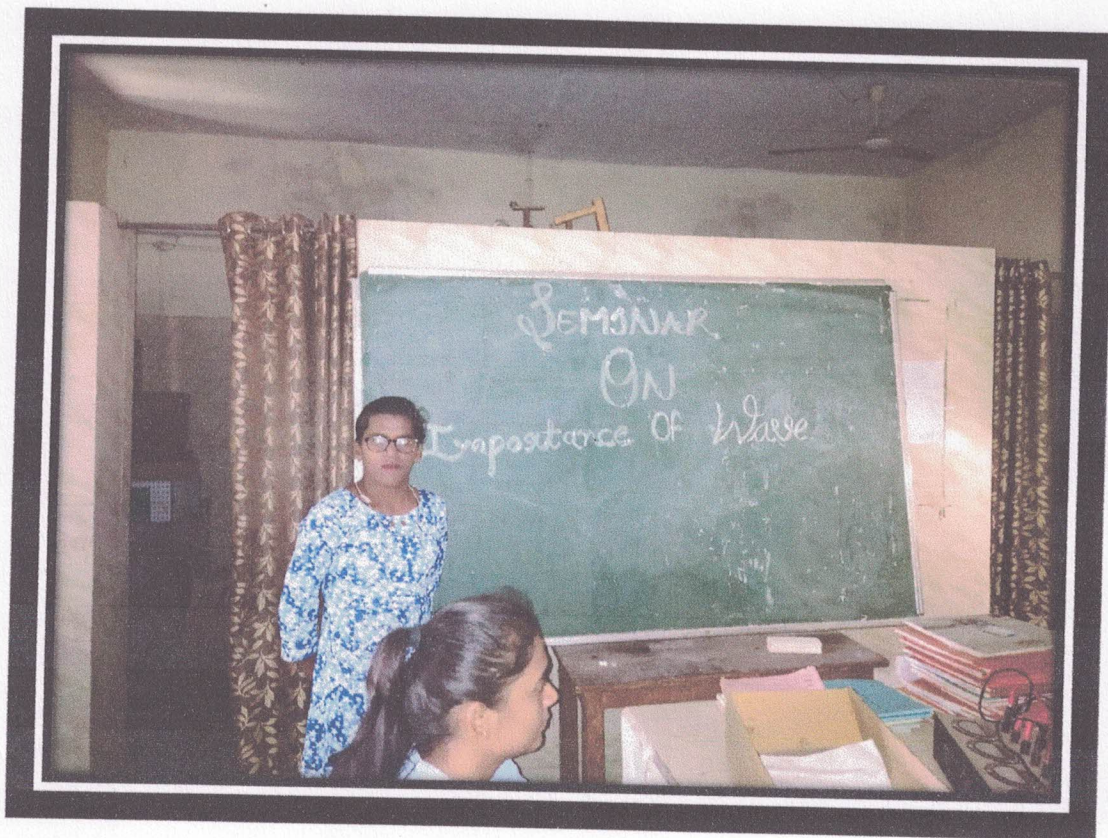
One Day Seminar


Date: 16 -01-2017


No of participants – 37

Department:-Physics

The seminar was conducted by the undergraduate students of B.Sc. part 2 and part 3 (math's group) in Physics Department on 16<sup>th</sup> Jan 2017. The seminar were given on "WAVES" by BSc Part 2 students and "QUANTUM MECHANICS" were covered by B.sc Part3 students.



  
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VAISHALI NAGAR, BHILAI

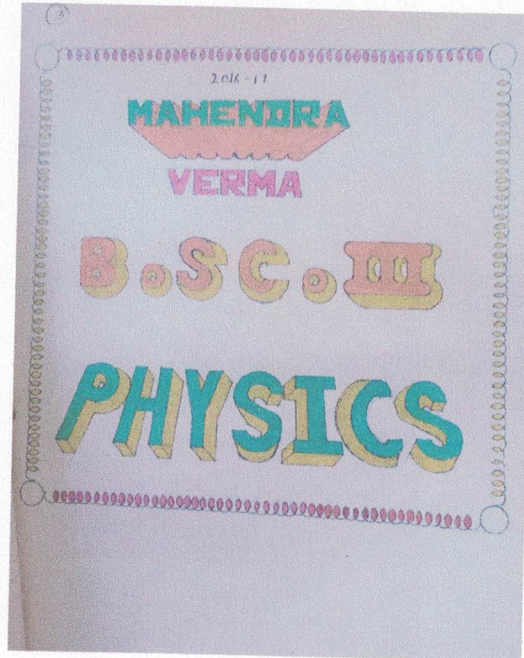
## Report on PROJECT

YEAR 2016-2017

Undergraduate students of Physics Department of Indira Gandhi Govt. Collage Vaishali Nagar Bhilai have made the wonderful projects on different topics under the guidance of HOD Physics

No. of Students = 10

Name of Students	Topics	Class
1.Jyoti Kumari	Transmission Grating	Bsc. III (Maths)
2.Pinki Singh	Hydrolic Arm Crane	Bsc II(Maths)
3.Hemant Verma	Regualted Power Supply	Bsc III
4.Sumita	FET	Bsc III
5.Ruchi Vadekar	Junction Diode	Bsc III(C.S)
6.Sandhya Soni	Heat Capacity	Bsc II(Maths)
7.Yogita	Heat Conductivity	Bsc II(Maths)
8.Sangeeta	PN Junction Diode	Bsc III
9.Kavita Dewangan	Adiabatic Change in gases	Bsc II(Maths)
10. Jyoti	Specific Heat	Bsc. II (Maths)



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VAISHALI NAGAR, BHILAI

## PHYSICS DEPARTMENT

### Quiz Report 2016-17

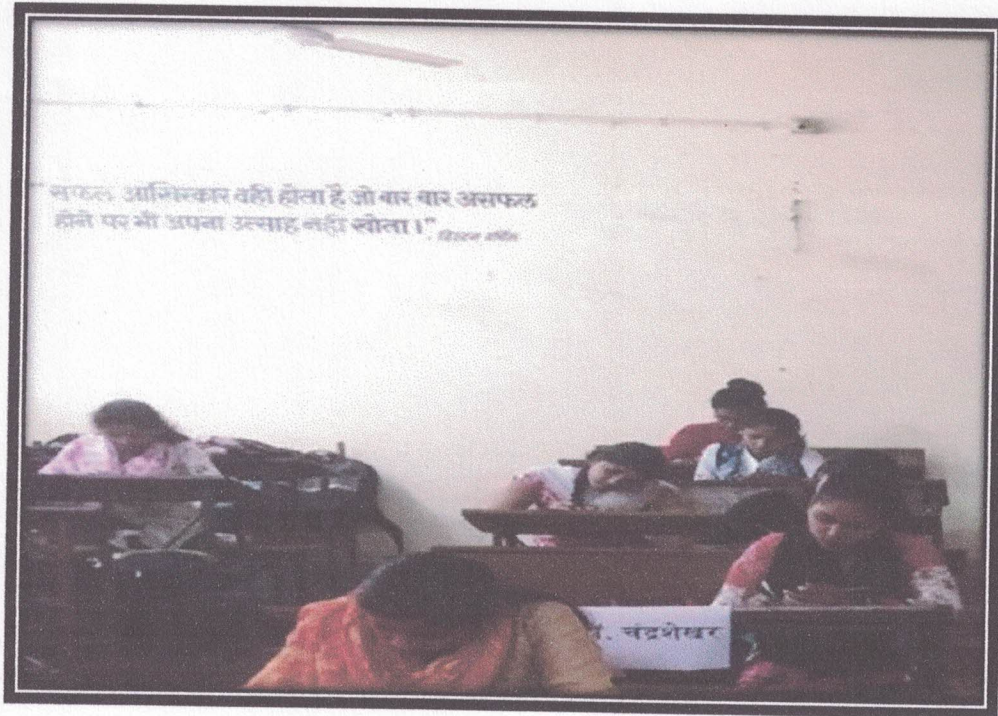
No of Students – 30 (B.Sc. Part – 1)


No of Students – 20 (B.Sc. Part – 2)

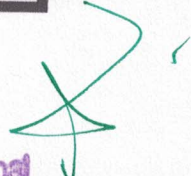
No of Students – 26 (B.Sc. Part – 3)

Quiz was conducted in Physics Department on 2-09-16, 3-09-16 and 6-09-16 respectively. On 2-09-16 B.Sc. Part 1 students participated in quiz. The topic of quiz was "**ELECTROSTATICS**", on 3-09-16 the quiz was conducted for B.Sc. Part 2 students on the topic "**THERMODYNAMICS**". 6-09-16 B.Sc. Part 3 students was participated in the quiz, topic was "**SEMICONDUCTOR**".

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