



Establishment  
27/11/1928

**SNJB (Jain Gurukul's)**

**K.K.H. Abad Arts, S.M.G. Lodha Commerce & S.P.H. Jain Science College  
Neminagar, Chandwad-423101, Dist.-Nashik, Maharashtra**

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(Affiliated to Savitribai Phule Pune University) Id. No.PU/NS/AC/015/1970

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(02556) Off. 252125 Res.252126 Tel. Fax:02556-252125

• P. O. Box No.: 6 • E-mail : [alccchandwad@yahoo.co.in](mailto:alccchandwad@yahoo.co.in)

• Website : [www.acschandwadcollege.com](http://www.acschandwadcollege.com)

DST-FIST Funded (2018-19)

UGC-NSQF Courses (B.Voc. & CC)

Best College Award by Savitribai Phule Pune University (2015-16)

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**List of Documents: Physics T.Y.B.Sc. and M.Sc. II Field Visit**

Sr. No.	Document Name	Page No.
01	Syllabus Copy	02
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05	Mail Confirmation From IISER	08

T. Y. B. Sc. Physics

PH347 Laboratory Course I

**GROUP I**

**GENERAL PHYSICS (ANY EIGHT)**

1. Viscosity of liquid by Rotating cylinder method
2. Moment of Inertia by Bifilar suspension
3. Young's modulus by Newton's rings
4. Young's modulus by Koenig method
5. Determination of wavelength of light by Michelson's interferometer
6. Surface tension liquid by Fergusson method
7. Surface tension of mercury by Quincke's method
8. Hall Effect
9. Energy gap of a semiconductor
10. Study of XRD spectra of any matter
11. Resistivity by Four probe method
12. Platinum resistance thermometer
13. Kater's pendulum
14. Study of forced oscillations by electromagnetically driven simple pendulum
15. Y by vibration of wooden scale
16. Study of damped oscillations of physical pendulum and finding log decrement.

**GROUP II**

**ATOMIC AND MOLECULAR PHYSICS AND OPTICS (ANY TWO)**

1. Determination of Rydberg's constant
2. Zeeman Effect
3. Lloyd's mirror
4. Determination of Resolving Power of grating
5. Determination of wavelength by Constant deviation spectrometer
6. Determination of refractive index of liquid using hollow prism.

**STATISTICAL PHYSICS AND THERMODYNAMICS (ANY TWO)**

1. Verification of Stefan's law by torch bulb filament
2. Thermal conductivity by Forbes Method.
3. Thermal conductivity of rubber tubing
4. Determination of pressure coefficient of air by constant volume thermometer.

**NUCLEAR AND QUANTUM MECHANICS (ANY TWO)**

1. Characteristics of G.M. tube
2. Inverse square law ( $\gamma$ -rays)
3. e/m by Thomson method
4. Determination of Planck's constant

**ELECTROMAGNETISM (ANY TWO)**

1. Self Inductance by Anderson's bridge
2. Core losses in transformers
3. Electromagnetic pendulum
4. Inductance by Maxwell's bridge

**Additional Activities (Any Two)**

- a. Demonstrations- Any 4 demonstrations equivalent to 2 experiments
- b. Study tour with report equivalent to 2 experiments
- c. Mini project equivalent to 2 experiments
- d. Computer aided demonstrations (Using computer simulations or animations) (Any 2 demonstrations equivalent to 2 experiments)

*Students have to perform at least two additional activities in addition to sixteen experiments mentioned above. Total laboratory work with additional activities*



Date: 01/09/2018

To  
Principal  
SNJB's Aabad Arts, Lodha commerce  
& Jain Science College, Chandwad

Subject : To avail permission for the educational tour

Respected sir,

With reference to the subject cited above and as per the curriculum of Savitribai Phule Pune University ,Pune for B.Sc Physics & M.Sc Physics ,it is compulsory to visit spot of industrial as well as Research institute .In this regard we have planned one day tour on 5<sup>th</sup> Sep.2018 at IISER Pune.45 Students and 5 faculty member are participating in the tour. A bus of Savta Mali travels,Nashik was booked for the same.

List of the Staff and students & also permission letter of IISER enclosed herewith for your kind information.

Kindly avail permission and do the needful.

Thanking You.

Yours Faithfully,

HEAD  
Department of Physics  
KKHA Arts, SMGL Commerce &  
SPHJ Science College, Chandwad  
Dist- Nashik 423 101 Maharashtra

09/09/2018  
Gite A.B

PRINCIPAL  
Karmvir Keshavlalji Harakchandji Aabad  
Arts. Shriman Motilalji Girdharilalji Lodha  
Commerce and Shriman P.H.Jain Science  
College, Chandwad Dist. Nashik

I & AC

Shri Neminath Jain Brahmacharyashram (Jain Gurukul's)



स्थापना  
१७/११/१९२८

**KARMVEER KESHAVLALJI HARAKCHANDJI ABAD ARTS,  
SHRIMAN MOTILALJI GIRIDHARILALJI LODHA COMMERCE  
& SHRIMAN P. H. JAIN SCIENCE COLLEGE**

**NEMINAGAR, CHANDWAD - 423 101 (DIST. NASHIK)**

☎ : (02556) Off. 252125 Tele Fax : (02556) 252125  
P. O. Box No. 6 E-mail : alccchandwad@yahoo.co.in

Junior College Code No. 13.01.002  
Senior College Code No. 088

**SNJB**

(Affiliated to University of Pune) Id. No. PU/NS/AC/015/1970  
Website : acschandwadcollege.com ( NAAC - RE-ACCREDITED - 'B' )

**Best College Award - 2015-16 of Savitribai Phule Pune University, Pune**

**Dr. G. H. Jain**  
Principal

M.Sc., A.D.C.S.A & A, Ph.D.  
Member - B.O.S. (Physics) University of Pune

Outward No. : **ALS/2018-19**

Date : **08 / 09 / 2018**

To  
The Administrative Officer,  
Shri Neminath Jain Brahmacharyashram,  
Neminagar, Chandwad 423101

**Subject : To avail permission for the educational tour**

Respected sir,

With reference to the subject cited above and as per the curriculum of Savitribai Phule Pune University, Pune for B.Sc Physics & M.Sc Physics, it is compulsory to visit spot of industrial as well as Research institute. In this regard we have planned one day tour on 5<sup>th</sup> Sep. 2018 at IISER Pune. 45 Students and 5 faculty member are participating in the tour. A bus of Savta Mali travels, Nashik was booked for the same.

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Kindly avail permission and do the needful.

Thanking You.

Yours Faithfully,

( Dr. G. H. Jain )

**PRINCIPAL**

Karmvir Keshavlalji Harakchandji Abad  
Arts, Shriman Motilalji Girdharilalji Lodha  
Commerce and Shriman P.H. Jain Science  
College, Chandwad Dist. Nashik

oc

**31/9/18**

Shri Neminath Jain Brahmacharyashram (Jain Gurukul's)



स्थापना  
१७/११/१९२८

**KARMVEER KESHAVLALJI HARAKCHANDJI ABAD ARTS,  
SHRIMAN MOTILALJI GIRIDHARILALJI LODHA COMMERCE  
& SHRIMAN P. H. JAIN SCIENCE COLLEGE**

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**Best College Award - 2015-16 of Savitribai Phule Pune University, Pune**

**Dr. G. H. Jain**  
Principal

M.Sc., A.D.C.S.A & A, Ph.D.  
Member - B.O.S. (Physics) University of Pune

Outward No. :

**ALSC/2018-19**

Date : **03 / 09 / 2018**

To

The Administrative Officer,  
Shri Neminath Jain Brahmacharyashram,  
Neminagar, Chandwad 423101

इनवर्ड नंबर: 292 दिनांक: 3.9.18  
स्वाक्षरी : शेरा :  
प्रशासकीय अधिकारी कार्यालय,  
एसएनजेवी, नेमिनगर, चांदवड, जि.नाशिक

**Subject : To avail permission for the educational tour**

Respected sir,

With reference to the subject cited above and as per the curriculum of Savitribai Phule Pune University, Pune for B.Sc Physics & M.Sc Physics, it is compulsory to visit spot of industrial as well as Research institute. In this regard we have planned one day tour on 5<sup>th</sup> Sep.2018 at IISER Pune. 45 Students and 5 faculty member are participating in the tour. A bus of Savta Mali travels, Nashik was booked for the same.

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Kindly avail permission and do the needful.

Thanking You.

Yours Faithfully,

(PRINCIPAL)

K.K.H.A. Arts SMGL Comm.  
& S.P.H.J. Science College,  
Chandwad, Dist. Nashik - 423 101

P.T.O.

# VISIT TO IISER (2018-19)

## T.Y.B.Sc.-Physics (Sem-III)

Sr.No.	Name of Students	Students Mob.No.	Parents Mob. No.	
1)	Pawar Puja Sanjay	7756025968	9822178158	
2)	Deore Madhuri Nandu	7720848381	7620783070	
3)	Dawange Kiran Hemant	8888526258	9049063758	
4)	Gade Rupali Lahanu	7414934775	9823654048	
5)	Wagh Seema Ravindra	7028949893	9552193825	
6)	Jain Mansi Rajendra	9359473045	9422393350	
7)	Zalte Pooja Kailas	9921782866	9822519893	
8)	Khan Mariya Haseeb	9168151781	9766786296	
9)	Yendait Varsha Sukdev	9607262059	9423073597	
10)	Ushir Radhika Sakhahari	9405135623	9049607887	
11)	Shejwal Shital Vasaqnt	9730849803	7621256737	
12)	Pawar Pratibha Narayan	9168796589	9359582474	
13)	Hire Jeevan Shantaram	9146572497	9657135155	
14)	Gangurde Ritesh Bhagwan	7620993687	9075392112	
15)	Gangurde Janardhan Namdev	7219852066	9075883056	
16)	Jadhav Dinkar Namdev	7558332665	9604662142	
17)	Sathe Atul Madhav	8007420770		
18)	Pawar Mahesh Ashok	9172946970	9767269416	
19)	Bagul Dharma			
20)	Bodake Kartik Ramesh	7387388141	8888308075	
21)	Nikam Pradip Madhukar	7219747393	9096116145	
22)	Gangurde Vaishali Sanjay	9527243463	9158138969	

23) Gaikwad Manisha  
Bhagwan 9860133674



**PRINCIPAL**

K.K.H.A. Arts SMGL Comm.  
& S.P.H.J. Science College,  
Chandwad, Dist. Nashik - 423 101

# VISIT TO IISER (2018-19)

## M.Sc.-Physics (Sem-I)

Sr.No.	Name of Students	Students Mob. No.	Parents Mob. No.	
1)	Kolhar Mayuri Anil	9834383563	9834320187	
2)	Gangurde Vaishali Sitaram	7588213699	9860861681	
3)	Sagar Rutuja Karbhari	7385769617	9921142963	
4)	Shewale Rutuja Satish	8329567176	9405233532	
5)	Pawar Payal Kailas	8999579506	9422763315	
6)	Wasulkar Shital Anil	8275833534	9923115012	
7)	Ahire Kaveri Bapu	9545605954	9921934530	
8)	Dongare Rohini Namdev	7517059754	9763667591	
9)	Vyavhare Jagruti Rajendra	8983078133	9850643688	
10)	Pagire Gitangali Balnath	8308268578	9404576567	
11)	Maniyar Nagama Shakil	9552045905	9272726907	
12)	Patil Dipjyoti Bhagwansing	8605398856	9209521488	
13)	Jain Shruti Prakash	9359859378		
14)	Thakare Shubhangi Goraknath	7447585257	8975749077	
15)	Thakare Sampada Babasaheb	8668611995	9960075976	
16)	Avhad Rajashri Madhukar	8669764202	9623091243	
17)	Deore Harshada Kailas	9067627980	9423255521	
18)	Darekar Kaveri Sudhakar	9975895275	9823955004	
19)	Shinde Priyanka Keshav	7218232146	9922872746	
20)	Jadhav Harshali Hiranman	8308064520	9881080874	
21)	Banchhod Akshay Rajesh	9503999621	9665690342	
22)	Gaikwad Harshal Ranjan	9561040869	9975500582	
23)	Nikam Sagar Ramesh	98608882980	9860906486	
24)	Salunkhe Prem Suresh	9689196928	9689199729	

Teaching staff;

1 Smt. Dr.S.D.Shinde

2 Prof.A.B.Gite

3.Dr. G.E.Patil

4 Mr. Y.B.Aher

5. Miss A. S.Patil

*Shinde*

*AM*

*Patil*

*Y.B.Aher*  
*9/9/19/18*  
*Ashipati*



Anil Gite &lt;gite.anil@gmail.com&gt;

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**Regarding visit of college Student to IISER Pune**

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**outreach@iiserpune.ac.in** <outreach@iiserpune.ac.in>  
To: Anil Gite <gite.anil@gmail.com>

Tue, Aug 28, 2018 at 11:41 AM

Dear Prof. Gite,

We had received your request to visit IISER Pune and we have scheduled your visit on 5th September 2018.

As discussed in our telephonic conversation please find the details below:

**Name of College/Institution:** SNJB's KKHA Arts, SMGL Comm and SPHJ Sci College Chandwad Nashik

**Number of students:** 45 ( TY and MSc Physics)

**Number of faculty members:** 4

**Date:** 5th September 2018

**Time:** 2.00- 5.00 PM

On the day of visit you are requested to report at least 15 mins before and bring a list of students as well as faculty members visiting.

You have asked to avail the lunch facility (on payment basis). If you still wish to avail this, you can report at ground floor of dining hall complex by 12.30 pm, kindly confirm the final number of people who will be availing this.

Looking forward to meet you at IISER Pune.

Thanks.

Best,

Hemangi K.

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Ms. Hemangi Kotibhaskar,  
Senior Teaching Associate,  
Centre of Excellence in Science and Mathematics Education (CoESME),  
Indian Institute of Science Education (IISER), Pune  
Phone: +91 (20) 2590 8211  
<http://www.iiserpune.ac.in/outreach/coesme>

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**From:** outreach@iiserpune.ac.in  
**To:** "Anil Gite" <gite.anil@gmail.com>  
**Sent:** Friday, August 24, 2018 12:36:01 PM

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**HEAD**  
**Department of Physics**  
KKHA Arts, SMGL Commerce &  
SPHJ Science College, Chandwad  
Dist- Nashik 423 101 Maharashtra