

# **Educational Visits**

**Under DBT STAR STATUS**

**Session 2022-23**

**Department of Physics**

**Kanya Maha Vidyalaya, Jalandhar**

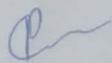
**(An Autonomous & Heritage Institution)**

## 20. Education Excursion to Bhakra Dam

[https://www.instagram.com/p/CsqPDD8O401/?utm\\_source=ig\\_web\\_copy\\_link&igshid=MmJiY2I4NDBkZg==](https://www.instagram.com/p/CsqPDD8O401/?utm_source=ig_web_copy_link&igshid=MmJiY2I4NDBkZg==)

1. **Date of program:** November 4<sup>th</sup>, 2022
2. **Title/Theme of the Program:** Education Excursion to Bhakra Dam
3. **Program for the benefit of:** Students to get practical learning along with fun.
4. **Objective:** To help students inculcate critical thinking and experiential learning skills among students by giving them opportunity to visualize, experience and practical understanding of textual knowledge
5. **Total no. of participants:** 46 (Including 4 teachers)
6. **Venue:** Bhakra Dam, Nangal

Kanya Maha Vidyalaya the Autonomous & Heritage Institution, Jalandhar has been at the forefront in imparting quality education to the students. To fulfill this purpose KMV college organizes educational Trips during each semester. Educational trips inculcate critical thinking and experiential learning skills among students by giving them opportunity to visualize, experience and practical understanding of textual knowledge. Trips develop greater bond between students and teachers Under the able guidance of dynamic Madam Principal Dr. Atima Sharma, PG Department of Physics organized an educational Trip to Bhakra dam and Shri Anandpur sahib. 42 students along with 4 teachers of PG Department of Physics have gone on trip. At Bhakra Dam Students got Knowledge about production of hydroelectric power. They came to know about many concepts of physics and about their applications. This Trip updated their knowledge and they got a demonstration of practical application of concepts of physics. At Anandpur Sahib students visited Virasat-e- Khalsa and learnt a lot about Guru Sahiban and about History of Punjab. Many demonstrations at Virasat-e-Khalsa were based on the various concepts of physics. Students related various theoretical concepts (especially Optics, mechanics and Electromagnetic) with practical learning. Students have enjoyed a lot during this trip. **Principal Dr. (Mrs.) Atima Sharma** proposed PG Department of Physics to organize fruitful educational trips in future also.



The Principal,  
Kanya Maha Vidyalaya,  
Jalandhar,

Respected Madam,

Kindly allow Department of Physics  
to take 40 students of B.Sc N.Med, C.Sc, B.Sc, Hons.  
Physics and M.Sc Physics students for one day  
trip to Bhakra Dam and Anandpur Sahib on  
4.11.22.

I shall be highly obliged.

Thanking You,  
Yours Sincerely,  
Parminder Kaur  
PARMINDER KAUR,  
Dept of Physics  
1.11.22





The Heritage Institution  
Estd. 1886

# KANYA MAHA VIDYALAYA (Autonomous)

Re-accredited 'A' by U.G.C.-NAAC  
"College with Potential for Excellence" by UGC  
Under Star College Scheme by DBT, Govt. of India

Phones : Principal Off. : 0181-2296605, 2296606  
Fax : 0181-2291741  
E-mail : kmvjalandhar@yahoo.com  
kmvoffice1886@gmail.com  
Vidyalaya Marg,  
JALANDHAR-144 004.

Ref. No. KMV/7182

Date 02-11-2022

## Authority Letter

### To Whom it may Concern

This is to certify that 42 students of PG Department of Physics (List attached) along with 4 teachers of this college will be visiting Bhakra Dam and Anandpur Sahib on 4<sup>th</sup> of November 2022.

*Madhura*  
Principal  
Kanya Maha Vidyalaya  
Kanya Maha Vidyalaya  
Jalandhar

## LIST OF STUDENTS GOING FOR THE TRIP

| SNO. | Pathania<br>NAME    | Roll No. | Class                         | Day Scholar/<br>Hostler |
|------|---------------------|----------|-------------------------------|-------------------------|
| 1.   | Nandita<br>Pathania | 225126   | MSC PHYSICS SEM III           | H                       |
| 2.   | Gagandeep<br>Kaur   | 225127   | MSC PHYSICS SEM III           | D                       |
| 3.   | Anshuman<br>Saluja  | 225128   | MSC PHYSICS SEM III           | D                       |
| 4.   | Vibuti Salaria      | 225129   | MSC PHYSICS SEM III           | D                       |
| 5.   | Anchal<br>Pathania  | 225130   | MSC PHYSICS SEM III           | D                       |
| 6.   | KHUSHI              | 224226   | B.sc Hons. Physics<br>Sem III | D                       |
| 7.   | RAMINDER<br>KAUR    | 224227   | B.sc Hons. Physics<br>Sem III | D                       |
| 8.   | AMANPREET<br>Kaur   | 224228   | B.sc Hons. Physics<br>Sem III | H                       |
| 9.   | MANJUSHA            | 224229   | B.sc Hons. Physics<br>Sem III | D                       |
| 10.  | SANIYA<br>THAKUR    | 224251   | B.sc Hons. Physics<br>Sem V   | H                       |
| 11.  | RUSHI<br>CHAMBYAL   | 224252   | B.sc Hons. Physics<br>Sem V   | H                       |
| 12.  | NANDITA<br>THAKUR   | 224253   | B.sc Hons. Physics<br>Sem V   | H                       |
| 13.  | CHARU               | 224254   | B.sc Hons. Physics<br>Sem V   | H                       |
| 14.  | HARMEET<br>KAUR     | 224255   | B.sc Hons. Physics<br>Sem V   | D                       |
| 15.  | HARMANDEEP          | 224258   | B.sc Hons. Physics<br>Sem V   | D                       |

THAKUR

SemIII

|            |                          |                  |                             |        |
|------------|--------------------------|------------------|-----------------------------|--------|
|            |                          |                  | Sem V                       |        |
| 16.        | NAINA                    | 224259           | B.sc Hons. Physics<br>Sem V | D      |
| 17.        | NEHA<br>PATHANIA         | 224260           | B.sc Hons. Physics<br>Sem V | D      |
| 18.        | SIMRANJEET<br>KAUR       | 224261           | B.sc Hons. Physics<br>Sem V | D      |
| 19.        | RUPINDER                 | 224803           | B.sc Non Medical<br>SemIII  | H      |
| 20.        | BHAVNA<br>THAKUR         | 224804           | B.sc Non Medical<br>SemIII  | H      |
| 21.        | KANNU<br>THAKUR          | 224805           | B.sc Non Medical<br>SemIII  | H      |
| 22.        | SAMRITI                  | 224806           | B.sc Non Medical<br>SemIII  | H      |
| 23.<br>17. | TANVI<br>PATHANIA        | 224807           | B.sc Non Medical<br>SemIII  | H<br>D |
| 24.        | SAJAL THAKUR             | 224808           | B.sc Non Medical<br>SemIII  | H      |
| 25.        | MANSI                    | 224813           | B.sc Non Medical<br>SemIII  | H      |
| 26.<br>20. | Aditi Pathania<br>BHAVNA | 224851<br>224804 | B.sc Non Medical<br>Sem V   | H<br>H |
| 27.        | Shruti<br>Ananya         | 224860<br>224853 | B.sc Non Medical<br>Sem V   | H      |
| 28.        | Kalpana                  | 224854           | B.sc Non Medical<br>Sem V   | H      |
| 29.<br>23. | Hritika<br>TANVI         | 224855<br>224807 | B.sc Non Medical<br>Sem V   | H<br>H |
| 30.        | Jashanpreet<br>Kaur      | 224856           | B.sc Non Medical<br>Sem V   | D      |
| 31.        | Suchina kaur             | 224857           | B.sc Non Medical<br>Sem V   | D      |
| 32.<br>26. | Isha<br>Anita Pathania   | 224859<br>224851 | B.sc Non Medical<br>Sem V   | D<br>H |
| 33.        | Shruti                   | 224860           | B.sc Non Medical<br>Sem V   | H      |

118 (d)

B.sc Non Medical  
Sem V

|            |  |  |  |                                    |
|------------|--|--|--|------------------------------------|
| 39.        | HARJOT NIKITA                                    | 224477   | B.sc Computer  | D                                  |
| 34.        | Anmol  | 224863   | B.sc Non Medical<br>Sem V  | D                                  |
| 35.        | Anampreet  | 224867   | B.sc Non Medical<br>Sem V  | D                                  |
| 42.<br>36. | INDERPREET<br>Mansi devi<br><i>Prachi Sharma</i> | <del>224482</del><br><del>224868</del><br>224286 | <del>B.sc Computer</del><br>B.sc Non Medical<br>Sem V<br><i>B.Sc (H) Physics Sem 5</i> | <del>D</del><br>D<br>H (not going) |
| 37.        | Shama  | 224869   | B.sc Non Medical<br>Sem V  | H                                  |
| 38.        | RADHIKA  | 224476   | B.sc Computer<br>Science Sem V   | H                                  |
| 39.        | HARJOT NIKITA                                    | 224477<br><i>Day Scholars= 21</i>                | B.sc Computer<br>Science Sem V   | D                                  |
| 40.<br>34. | BISHAKHA<br>Anmol                                | 224478<br>224863                                 | B.sc Computer<br>B.sc Non Medical<br>Science Sem V                                     | D                                  |
| 41.        | NANDINI  | 224479   | B.sc Computer<br>Science Sem V   | D                                  |
| 42.        | INDERPREET                                       | 224482   | B.sc Computer<br>Science Sem V   | D                                  |

37. Shama 224869 B.sc Non Medical H

Total No. of Students = 42

Day Scholars= 20

Hostlers= 22

40. 224478 B.sc Computer Science Sem V D

KANYA MAHA VIDYALAYA, JALANDHAR  
(P.G. Department of Physics)

Parental Consent Form for Trip to Bhakra Nangal , Shri  
Anandpur Sahib

Name of Student Simranjeet Kaur  
Date of Birth 15-Dec-2001 Class B.Sc(hons) physics sem-V Roll No. 224261  
Name and address of Parent/Guardian S. Sarabjit Singh  
V.P.O. Tandive distt. Jalandhar pin-144201  
Telephone: Home 9465591305 Work Farmel  
Emergency contact details 94630-78742

PARENTAL CONSENT (PLEASE READ AND SIGN)

I, Sarabjit Singh give consent for my daughter Simranjeet Kaur Name of student) B.Sc(h) physics -V (Class) 224261 (Roll No.) to go on the educational trip to Bhakra Nangal , Shri Anandpur Sahib on 4-11-22 (date), organised by the Physics Department.

In furtherance of the objectives of the said educational trip to Bhakra Nangal , Shri Anandpur Sahib to which my daughter has been selected, I hereby undertake to assume responsibility on the following matters:

- Any claims, damages or costs which the College and its staff may become liable to incur in consequence of any injury or damage to or illness of my daughter occurring during or as a result of the trip.
- Any other costs and/or expenses reasonably incurred by the College and its staff on behalf of my said daughter during or as a result of the trip.
- I accept that all personal belongings are the sole responsibility of my said daughter.

In the case of accident or illness I give the teachers in charge permission to seek medical attention and to administer and/or provide any medical or surgical treatment that may be professionally recommended to be given to my said child. I agree to pay for all such doctor and/or hospital expenses incurred.

Sarabjit Singh

Signature of Parent/Guardian

31/10/22

Date

STUDENT AGREEMENT

As a student of B.Sc(hons) physics sem-V participating in the educational trip to Bhakra Nangal , Shri Anandpur Sahib, I agree to abide by the rules and expectations and to cooperate with, and obey at all times, the teachers in charge.

Simranjeet Kaur  
Signature of Student

Date

31/10/22

**KANYA MAHA VIDYALAYA, JALANDHAR**  
(P.G. Department of Physics)  
Parental Consent Form for Trip to Bhakra Nangal , Shri  
Anandpur Sahib

Name of Student. Aditi Patnamia  
Date of Birth. 15 Apr 2003 Class BSc (N.M) Sem I Roll No. 224851  
Name and address of Parent/Guardian. Amarjeet Singh R/O Vill  
THEER P.O. KUKHER TEH. NURPUR DISTT. KANGRA H.P. (176211)  
Telephone: Home 7018688529 Work 8219633662  
Emergency contact details 9544764787

**PARENTAL CONSENT (PLEASE READ AND SIGN)**

I, Amarjeet Singh give consent for my daughter Aditi Patnamia (Name of student) BSc (N.M) Sem I (Class) 224851 (Roll No.) to go on the educational trip to Bhakra Nangal , Shri Anandpur Sahib on 4 Nov, 2022 (date), organised by the Physics Department.

In furtherance of the objectives of the said educational trip to Bhakra Nangal , Shri Anandpur Sahib to which my daughter has been selected, I hereby undertake to assume responsibility on the following matters:

- (a) Any claims, damages or costs which the College and its staff may become liable to incur in consequence of any injury or damage to or illness of my daughter occurring during or as a result of the trip.
- (b) Any other costs and/or expenses reasonably incurred by the College and its staff on behalf of my said daughter during or as a result of the trip.
- (c) I accept that all personal belongings are the sole responsibility of my said daughter.

In the case of accident or illness I give the teachers in charge permission to seek medical attention and to administer and/or provide any medical or surgical treatment that may be professionally recommended to be given to my said child. I agree to pay for all such doctor and/or hospital expenses incurred.

[Signature]  
Signature of Parent/Guardian  
Date 1/11/22

**STUDENT AGREEMENT**

As a student of BSc (NON-MEDICAL) SEM I participating in the educational trip to Bhakra Nangal , Shri Anandpur Sahib, I agree to abide by the rules and expectations and to cooperate with, and obey at all times, the teachers in charge.

Aditi  
Signature of Student  
Date 2/11/22

KANYA MAHA VIDYALAYA, JALANDHAR  
(P.G. Department of Physics)

Parental Consent Form for Trip to Bhakra Nangal , Shri  
Anandpur Sahib

Name of Student. Suchina Kaur.....

Date of Birth. 13.08.2002.. Class B.Sc (NM) Sem V. Roll No. 224857.

Name and address of Parent/Guardian. Village Jhams, Distt. Hoshiarpur,

P. O Tanda, 144203, Name: Kulwinder Kaur (Mother).....

Telephone: Home. 94642-16885..... Work House-wife.....

Emergency contact details 7889133825.....

PARENTAL CONSENT (PLEASE READ AND SIGN)

I, Kulwinder Kaur give consent for my daughter Suchina Kaur (Name of student) B.Sc (NM) Sem V (Class) 224857 (Roll No.) to go on the educational trip to Bhakra Nangal , Shri Anandpur Sahib on 4/11/22 (date), organised by the Physics Department.

In furtherance of the objectives of the said educational trip to Bhakra Nangal , Shri Anandpur Sahib to which my daughter has been selected, I hereby undertake to assume responsibility on the following matters:

(a) Any claims, damages or costs which the College and its staff may become liable to incur in consequence of any injury or damage to or illness of my daughter occurring during or as a result of the trip.

(b) Any other costs and/or expenses reasonably incurred by the College and its staff on behalf of my said daughter during or as a result of the trip.

(c) I accept that all personal belongings are the sole responsibility of my said daughter.

In the case of accident or illness I give the teachers in charge permission to seek medical attention and to administer and/or provide any medical or surgical treatment that may be professionally recommended to be given to my said child. I agree to pay for all such doctor and/or hospital expenses incurred.

Kulwinder Kaur  
Signature of Parent/Guardian

2/11/22  
Date

STUDENT AGREEMENT

As a student of B.Sc (Non medical) Sem V participating in the educational trip to Bhakra Nangal , Shri Anandpur Sahib, I agree to abide by the rules and expectations and to cooperate with, and obey at all times, the teachers in charge.

Suchina Kaur  
Signature of Student

2/11/22  
Date

KANYA MAHA VIDYALAYA, JALANDHAR  
(P.G. Department of Physics)

Parental Consent Form for Trip to Bhakra Nangal , Shri  
Anandpur Sahib

Name of Student. Heitika.....

Date of Birth. 16: March 2003. Class B.Sc (N.M) Sem-V Roll No. 224855.....

Name and address of Parent/Guardian... SUBHASH CHAND R/O V.P.O......

Hondevi, Distt- Kangra, Teh- Fatehpur, Pincode - 176022 (HP)

Telephone: Home... 9459775509..... Work 9459775479.....

Emergency contact details 7018094316.....

PARENTAL CONSENT (PLEASE READ AND SIGN)

I, SUBHASH CHAND give consent for my daughter Heitika (Name of student) B.Sc (N.M) Sem-V (Class) 224855 (Roll No.) to go on the educational trip to Bhakra Nangal , Shri Anandpur Sahib on 4 Nov, 2022 (date), organised by the Physics Department.

In furtherance of the objectives of the said educational trip to Bhakra Nangal , Shri Anandpur Sahib to which my daughter has been selected, I hereby undertake to assume responsibility on the following matters:

- Any claims, damages or costs which the College and its staff may become liable to incur in consequence of any injury or damage to or illness of my daughter occurring during or as a result of the trip.
- Any other costs and/or expenses reasonably incurred by the College and its staff on behalf of my said daughter during or as a result of the trip.
- I accept that all personal belongings are the sole responsibility of my said daughter.

In the case of accident or illness I give the teachers in charge permission to seek medical attention and to administer and/or provide any medical or surgical treatment that may be professionally recommended to be given to my said child. I agree to pay for all such doctor and/or hospital expenses incurred.

[Signature]  
Signature of Parent/Guardian

1/11/22  
Date

STUDENT AGREEMENT

As a student of B.Sc (Non-Medical) Sem-V participating in the educational trip to Bhakra Nangal , Shri Anandpur Sahib, I agree to abide by the rules and expectations and to cooperate with, and obey at all times, the teachers in charge.

[Signature]  
Signature of Student

2 Nov. 22  
Date

**KANYA MAHA VIDYALAYA, JALANDHAR**  
**(P.G. Department of Physics)**  
**Parental Consent Form for Trip to Bhakra Nangal , Shri**  
**Anandpur Sahib**

Name of Student: Ananya

Date of Birth: 04-10-2002 Class: B.Sc. Non-Medical Sem-V Roll No. 224853

Name and address of Parent/Guardian Dr. Sandeep Kaur Room No. 11(Faculty Hostel)  
K.M.V. College, Jalandhar.

Telephone: Home 7009474928 Work 9877181650

Emergency contact details Dr. Sandeep Kaur Room No. 11(Faculty Hostel) K.M.V.  
College, Jalandhar.

**PARENTAL CONSENT (PLEASE READ AND SIGN)**

I Dr. Sandeep Kaur give consent for my niece Ananya (Name of student) B.Sc. Non-Medical Sem-V(Class) 224853(Roll No.) to go on the educational trip to Bhakra Nangal , Shri Anandpur Sahib\_ on 04-11-2022(date), organised by the Physics Department.

**In furtherance of the objectives of the said educational trip to Bhakra Nangal , Shri Anandpur Sahib to which my daughter has been selected, I hereby undertake to assume responsibility on the following matters:**

- (a) Any claims, damages or costs which the College and its staff may become liable to incur in consequence of any injury or damage to or illness of my daughter occurring during or as a result of the trip.**
- (b) Any other costs and/or expenses reasonably incurred by the College and its staff on behalf of my said daughter during or as a result of the trip.**
- (c) I accept that all personal belongings are the sole responsibility of my said daughter.**

**In the case of accident or illness I give the teachers in charge permission to seek medical attention and to administer and/or provide any medical or surgical treatment that may be professionally recommended to be given to my said child. I agree to pay for all such doctor and/or hospital expenses incurred.**

Sandeep  
Signature of Parent/Guardian

1/11/2022  
Date

**STUDENT AGREEMENT**

As a student of B.Sc. Non-Medical Sem-V participating in the educational trip to Bhakra Nangal , Shri Anandpur Sahib, I agree to abide by the rules and expectations and to cooperate with, and obey at all times, the teachers in charge.

Ananya  
Signature of Student

1/11/2022  
Date

# Feedback Form of Trip to Bhakra Dam and Shri Anandpur Sahib

| Sr. No | Name             | Class                | Roll No. | Your Experience/ suggestion  |
|--------|------------------|----------------------|----------|--|
| 1.     | MANJUSHA         | BSc(H)<br>Physics    | 224229   | It was like visiting a learning hub id, Virasat-e-Khalsa                                   |
| 2.     | AMANPREET        | BSc(H)<br>Physics    | 224228   | Understand physical applications of systems at Virasat-e-Khalsa                            |
| 3.     | KHUSHI           | BSc(H)<br>Physics-3  | 224226   | Knowledgeable.   |
| 4.     | RAMINDERKAUR     | BSc(CH)<br>Physics-3 | 224227   | Interesting  |
| 5.     | BISHAKHA         | BSc CS<br>✓          | 224478   | Bhakra dam was good  |
| 6.     | NANDINI          | BSc CS<br>✓          | 224479   | Anandpur Sahib was soothing  |
| 7.     | RAADHIKA         | BSc CS<br>✓          | 224476   | Keshgarh Sahib was beautiful   |
| 8.     | HARJOT<br>NIKITA | BSc CS<br>✓          | 224477   | Virasat Khalsa was meaningful  |
| 9.     | INDERPREET       | BSc CS<br>✓          | 224480   | Came to know alot about Punjab history   |
| 10.    | ADITI PATHANIA   | BSc (NM)<br>V        | 224851   | It was very knowledgeable experience. Learned basic concepts at Bhakra Dam.                |
| 11.    | ANMA SIDHU       | BSc NM<br>✓          | 224863   | Full of enjoyment, fun, spiritual and mesmerizing trip along with good educational values. |
| 12.    | Amanpreet Kaur.  | BSc (NM)<br>5.       | 224867.  | Interesting and knowledgeable with full of enjoyment.                                      |

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# Feedback Form of Trip to Bhakra Dam and Shri Anandpur Sahib

| Sr. No | Name             | Class                       | Roll No. | Your Experience/ suggestion   |
|--------|------------------|-----------------------------|----------|---|
| 1.     | Jashanpreet Kaur | BSC nm<br>sem 15            | 224856   | great experience  |
| 2.     | Kalpna Sharma    | BSC non<br>medical<br>sem V | 224854   | great Experience.   |
| 3      | Isha             | BSC (nm)<br>sem-5           | 224859   | Great experience  |
| 4      | Jasvika          | BSC (NM)<br>sem-5           | 224855   | Was a knowledgeable great exp-<br>trip to Bhakra dam & as<br>well as spiritual trip to Anandpur Sahib |
| 5      | Shruti           | BSC (NM)<br>Sem-5           | 224860   | Trip was very good and<br>very knowledgeable.   |
| 6      | Ananya           | BSC NM<br>sem-V             | 224853   | I had a great experience.<br>It was very spiritual trip.  |
| 7.     | Suchina Kaur     | B.Sc (NM)<br>Sem V          | 224857   | Very good experience.<br>It was a memorable trip.   |
| 8.     | Shama Praveen    | B.Sc (nm),<br>Sem V         | 224869   | It was fun and<br>adventurous for me.   |
|        |                  |                             |          |   |
|        |                  |                             |          |   |
|        |                  |                             |          |   |
|        |                  |                             |          |   |
|        |                  |                             |          |   |
|        |                  |                             |          |   |
|        |                  |                             |          |   |
|        |                  |                             |          |   |
|        |                  |                             |          |   |

**28. Research Excursion to Physics Lab at Dr. B. R. Ambedkar National  
Institute of Technology Jalandhar**

[https://www.instagram.com/p/CsqRgQWyKYo/?utm\\_source=ig\\_web\\_copy\\_link&igshid=MmJIY2I4NDBkZg==](https://www.instagram.com/p/CsqRgQWyKYo/?utm_source=ig_web_copy_link&igshid=MmJIY2I4NDBkZg==)

- 1. Date of program:** 3 February , 2023
- 2. Title/Theme of the Program:** Research Excursion to Physics Lab at Dr. B. R. Ambedkar National Institute of Technology Jalandhar
- 3. Program for the benefit of:** Students get knowledge about different research equipments.
- 4. Objective:** To understand Physics behind different research Equipments
- 5. Total no. of participants:** 8 ( including One faculty member)
- 6. Venue:** Dr. B. R. Ambedkar National Institute of Technology Jalandhar

Kanya Maha Vidyalaya the Autonomous & Heritage Institution, Jalandhar has been at the forefront in imparting quality education to the students. To fulfill this purpose KMV college organizes Lab Visits during each semester. Lab Visits inculcate critical thinking and experiential learning skills among students by giving them opportunity to visualize, experience and practical understanding of textual knowledge. Under the able guidance of dynamic Madam Principal Dr. Atima Sharma, PG Department of Physics organized a Lab visit to Dr. B. R. Ambedkar National Institute of Technology Jalandhar 7 students along with 1 teacher of PG Department of Physics have gone to visit the Lab. During this visit students learnt about Gamma Ray spectrometer, heavy element analysis unit, spark chamber for alpha counting and Working of Solid state nuclear track detectors. This lab visit enhanced the knowledge of students and gave them research exposure .It motivates students to opt for Research in near Future. **Principal Dr. (Mrs.) Atima Sharma proposed** PG Department of Physics to organize fruitful lab visits in future also.



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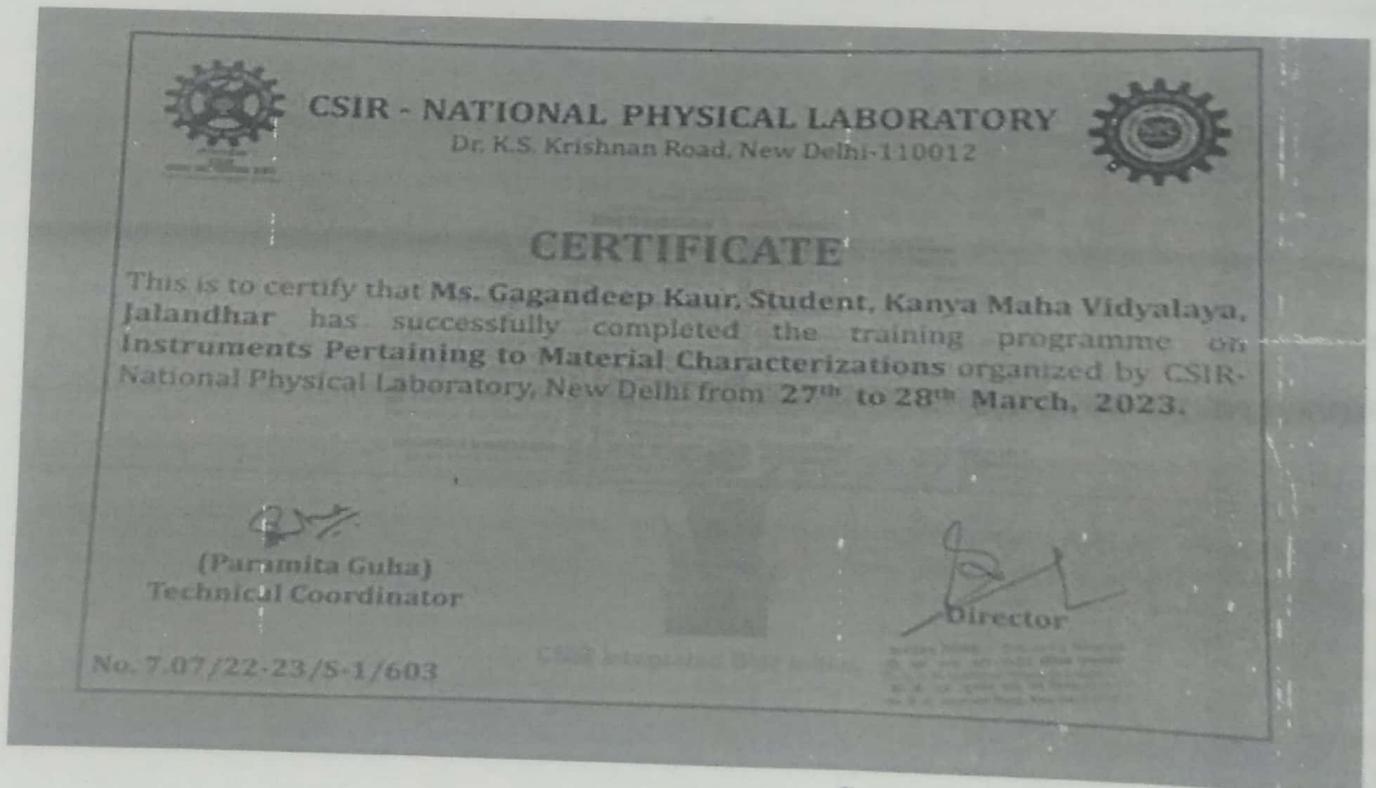
### 39. Physics Students attended two days training programme at NPL, New Delhi

1. **Date of program:** 27 to 28 March, 2023
2. **Title/Theme of the Program:** Two days training programme at NPL, New Delhi
3. **Program for the benefit of:** Students to give exposure of high tech instruments used for material characterisation
4. **Objective:** To familiarize students with various techniques used for material characterization along with details about their applications and future scope.
5. **Total no. of participants:** 9 (including 2 teachers)
6. **Venue:** National Physical Laboratory (NPL), New Delhi

Kanya Maha Vidyalaya is dedicated to science and research, with a vision of guiding its students in the field of research. Under this umbrella a two day training program, from 27 to 28 March, 2023, was organised by P.G. Department of Physics Kanya Maha Vidyalaya for students of MSc physics at National Physics Laboratory Delhi. National Physical Laboratory (NPL) is India's National Metrology Institute (NMI) responsible for developing and maintaining the national primary measurement standards as well as collaborating with other NMIs to maintain the international system of measurements. During the two days training, students were familiarized with various techniques used for material characterization along with details about their applications and future scope. On the first day, a Scanning Electron Microscope (SEM) And X ray Fluorescence spectrometer (XRF) were demonstrated. On the second day, students were introduced to X-Ray Diffractometer, Dynamic Ray Scattering Zetasizer and Magnetic Rheology. Students also got the chance to meet with the senior principal scientist and Head, Bhartiya Niradeshak Dravya (BND), Dr. Nahar Singh who engaged the students in an interesting and informative talk motivating students in the field of research. This two-day training proved to be very beneficial and informative for the students and they learnt about important techniques that would aid their future in scientific research and their advancements will prove beneficial for the nation. Madam Principal Prof. Dr. Atima Sharma Dwivedi appreciated the efforts of P.G. Department of Physics as well as the enthusiasm of students. She also stated that the college is



striving ceaselessly to maintain its standards of excellence by fostering an environment of endless opportunities and promoting research.





**CSIR - NATIONAL PHYSICAL LABORATORY**

Dr. K.S. Krishnan Road, New Delhi-110012



**CERTIFICATE**

This is to certify that **Ms. Anshuman Saluja**, Student, **Kanya Maha Vidyalaya, Jalandhar** has successfully completed the training programme on **Instruments Pertaining to Material Characterizations** organized by CSIR-National Physical Laboratory, New Delhi from **27<sup>th</sup> to 28<sup>th</sup> March, 2023**.

(Paramita Guha)  
Technical Coordinator

Director

No. 7.07/22-23/S-1/600

CSIR Integrated Skill University



**CSIR - NATIONAL PHYSICAL LABORATORY**

Dr. K.S. Krishnan Road, New Delhi-110012



**CERTIFICATE**

This is to certify that **Ms. Vibhuti Salaria**, Student, **Kanya Maha Vidyalaya, Jalandhar** has successfully completed the training programme on **Instruments Pertaining to Material Characterizations** organized by CSIR-National Physical Laboratory, New Delhi from **27<sup>th</sup> to 28<sup>th</sup> March, 2023**.

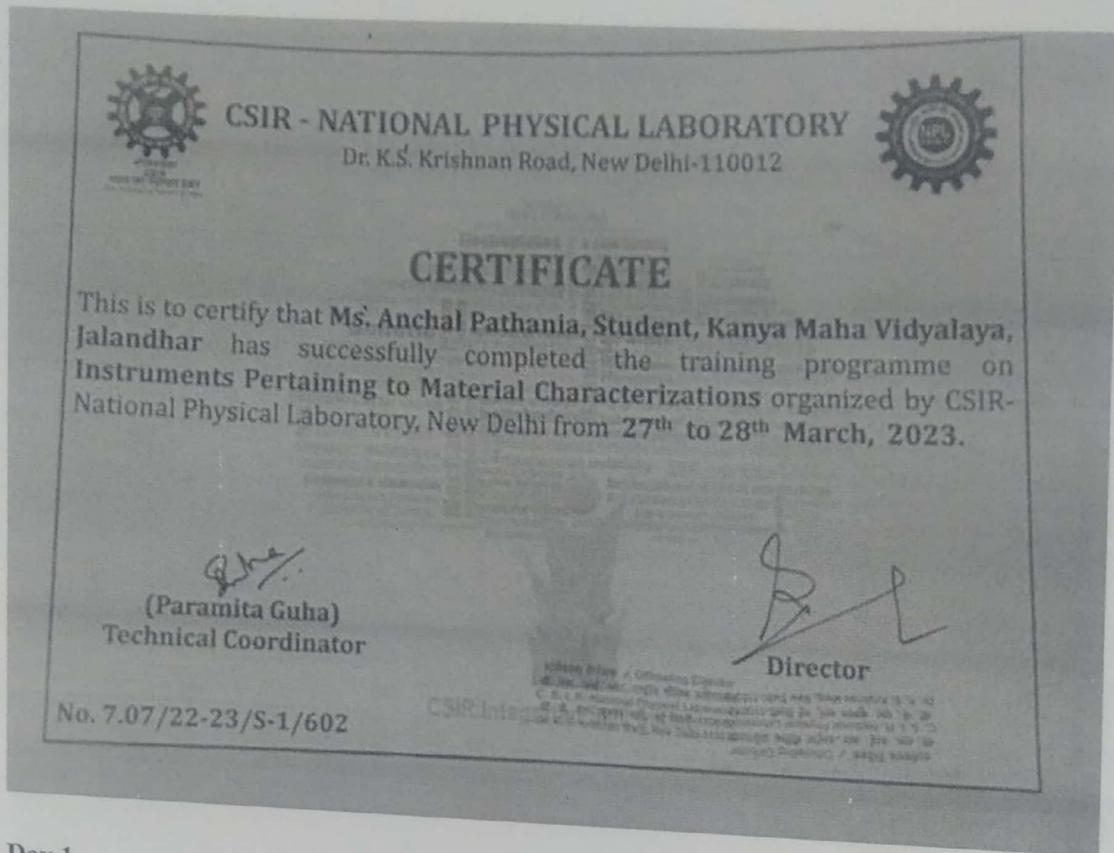
(Paramita Guha)  
Technical Coordinator

Director

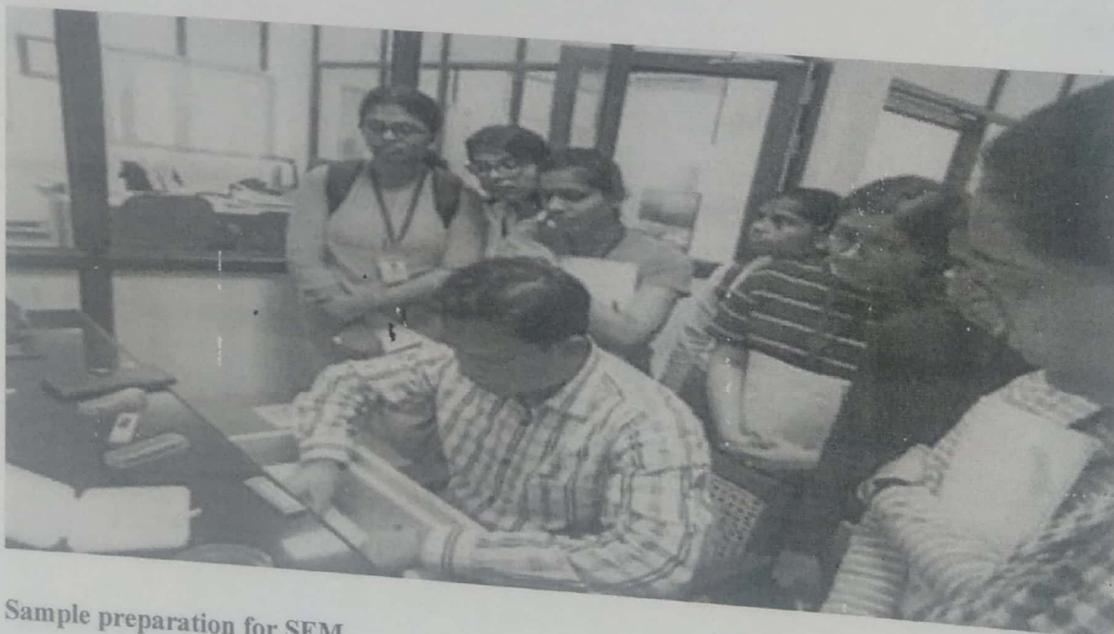
No. 7.07/22-23/S-1/597

CSIR Integrated Skill University

CSIR - National Physical Laboratory  
Dr. K.S. Krishnan Road, New Delhi-110012



Day 1



Sample preparation for SEM



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## KANYA MAHA VIDYALAYA (Autonomous)

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Date 17-3-2023

### Authority Letter

#### To whom it may concern

Following seven students of Kanya Maha Vidyalaya, Jalandhar along with two faculty members Dr. Manmohan Singh and Ms. Shivani Nayyar from PG Department of Physics will be visiting National Physical Laboratory (NPL), Delhi from 27<sup>th</sup> to 28<sup>th</sup> of March 2023 for two days training.

#### List of students:

1. Ms. Haramanpreet Kaur, M.Sc Sem II
2. Ms. Nandita pathania, M.Sc Sem IV
3. Ms. Gagandeep Kaur, M.Sc Sem IV
4. Ms. Anshuman Saluja, M.Sc Sem IV
5. Ms. Vibuti Salaria, M.Sc Sem IV
6. Ms. Anchal Pathania, M.Sc Sem IV
7. Ms. Vindu Sounkhla, M.Sc Sem IV

Principal

Kanya Maha Vidyalaya  
Kanya Maha Vidyalaya  
Jalandhar

Feedback Form (Two days training at National Physical Laboratory, Delhi)

27-28<sup>th</sup> March 2023

| Sr. No. | Name              | Class           | Roll No. | What did you learn?                              | Would you like to go on such training again? | Signature         |
|---------|-------------------|-----------------|----------|--|--|-------------------|
| 1.      | Haramanpreet Kaur | MSc. Phy Sem-2  | 225101   | Experimental Techniques                          | Yes  | Haramanpreet Kaur |
| 2.      | Nandita Pathania  | M.Sc. Phy Sem-4 | 225126   | Characterisation Techniques for material Science | Yes  | Nandita Pathania  |
| 3.      | Gagandeep Kaur    | MSc. Phy Sem-4  | 225127   | Material Characterisation Techniques             | Yes  | Gagandeep Kaur    |
| 4.      | Anshuman Salya    | MSc Phy Sem-4   | 225128   | Characterisation Techniques for various material | Yes  | Anshuman Salya    |
| 5.      | Anchal Pathania   | MSc Phy Sem-4   | 225130   | characterization techniques for materials        | Yes  | Anchal Pathania   |
| 6.      | Vindu Sunkhla     | Msc Phy Sem-4   | 225132   | characterization techniques for materials        | Yes  | Vindu Sunkhla     |
| 7.      | Vibhuti Salaria   | MSc Phy Sem-4   | 225129   | Techniques for Material characterization         | Yes  | Vibhuti Salaria   |

*(Handwritten mark)*