

SSES Amt's Science College, Congress Nagar, Nagpur

"Exploring the Cosmos: A Journey to ARIES Laboratory, Nainital"

Session 2023-24

Application for Permission of Educational Tour

30<sup>th</sup> January 2024

To,  
The Principal  
Shri Shivaji Education Society Amravati's  
Science College,  
Congress Nagar,  
Nagpur-440012

Subject: Application letter for Educational Tour

Respected Sir,


We are writing this letter to request you for permission for an education tour. Educational tours are a great way to enhance the learning experience of students and provide them with hands-on exposure to various aspects of their chosen field. This education tour has been planned by our department with assistance from our teacher.

The site chosen is **ARIES lab**, is a research institute in Nainital, Kumaon, India which specializes in **astronomy, solar physics, astrophysics and atmospheric science**. This would be a great opportunity to sharpen their interest in this respective field. About 30-35 students are ready to go on this tour.

We assure you that all necessary precautions will be taken to ensure the safety and well-being of the students. We look forward to your consideration and are hoping for a positive response from your side.

Thanking You

Yours Faithfully



30.1.2024

**Dr. S. W. Anwane**  
Professor and Head  
Department of Physics  
Shri Shivaji Education Society Amravati's  
**SCIENCE COLLEGE**  
Congress Nagar, Nagpur.

Permitted.  
MSHORE  
30.1.24

On March 11, 2024, a group comprising 32 students of B.Sc. and M.Sc. Physics and 5 faculty members 2 permanent Staff Dr. S.K. Sayyad, Mr. B.T. Kumbhare, and 3 M.Sc. Ad hoc staff from Shri Shivaji Education Society Amravati's Science College, Congress Nagar Nagpur, embarked on a study tour to ARIES (**Aryabhatta Research Institute of Observational Sciences**) Laboratory in Nainital. The tour aimed to provide students with practical exposure to astronomical research and observation techniques, with a delightful detour via Delhi to explore some of the capital's renowned tourist attractions.

The journey commenced from Nagpur on March 10, with the group boarding a train to Delhi. Upon arrival in Delhi, the group visited iconic landmarks such as the Red Fort, India Gate, and Qutub Minar, immersing themselves in the rich cultural heritage and historical significance of the capital city. The students were captivated by the architectural marvels and historical anecdotes shared by their accompanying faculty members.

After a day of exploration in Delhi, the group resumed their journey and arrived at ARIES Laboratory in Nainital on March 11 at 10:00 a.m. Upon arrival, they were warmly welcomed by the staff members Dr. Virendra Kumar Yadav, Scientist-Cand his project assistants who briefed us about the institute's research activities, ongoing projects, and facilities. The students were particularly intrigued by the advanced telescopes, renowned 105 cm Sampurnanand Telescope and instruments used for astronomical observations.

Following the briefing session, the students were divided into smaller groups and were given guided tours of the laboratory facilities. They had the opportunity to interact with researchers and scientists, who generously shared their knowledge and experiences in the field of astronomy. The students were highly engaged and actively participated in discussions regarding various celestial phenomena and research methodologies.

The highlight of the visit was a captivating video presentation about the institute's formation and its ongoing projects, including the development of the new Asia's biggest telescope at Devsthal.

The video provided valuable insights into the institute's research endeavors and technological advancements, sparking the student's curiosity and excitement about the possibilities of astronomical exploration.

One of the highlights of the tour was the sky-watching program organized in the evening. Under the guidance of ARIES astronomers, the students had the privilege of

observing celestial objects through powerful telescopes. They witnessed the beauty of distant galaxies, Jupiter with its four moons, which left them awe-inspired and deepened their appreciation for the wonders of the universe.

Throughout the day, the students gained valuable insights into the practical aspects of astronomical research and developed a deeper understanding of theoretical concepts learned in the classroom. The faculty members also lauded the efforts of the ARIES staff in facilitating an enriching learning experience for the students.

After a day filled with exploration and learning, the group departed from ARIES Laboratory with new found knowledge and enthusiasm for astronomy. The study tour proved to be a resounding success, fostering curiosity and igniting a passion for scientific inquiry among the students.

### **Action Taken Report**

The primary objective of the study tour was to provide students with practical exposure to astronomical research and observational techniques, enhancing their understanding of theoretical concepts and sparking interest in astronomical exploration. The study tour to ARIES Laboratory was highly successful, achieving its objective of fostering curiosity and igniting a passion for scientific inquiry among the students. The faculty members commended the efforts of ARIES staff in facilitating an enriching and educational experience.

List of Students for Educational Tour in ARIES Lab

Sr. No.	Name of Student	Year	Mobile No.
✓ 1	Prerna Ambade	M.Sc. II	9022893619
✓ 2	Rahul Khangar	M.Sc. II	9307444152
3	Vedant Maske	M.Sc. II	9561211967
✓ 4	Yash Chaube	M.Sc. II	7028430765
✓ 5	Samiksha Bhusari	M.Sc. II	9765680483
6	Nakul Deogade	M.Sc. I	9172548978
✓ 7	Shraddha Raut	M.Sc. I	8010418359
✓ 8	Gargi Popere	B.Sc.III	8261980853
✓ 9	Gauri Doifode	B.Sc.III	8379037624
✓ 10	Mohit Bhakte	B.Sc.III	9130440923
✓ 11	Samiksha Radke	B.Sc.III	9623500373
✓ 12	Shreevasta Pitale	B.Sc.III	7447443337
✓ 13	Tanmay Karanjekar	B.Sc.III	9322594137
✓ 14	Vaishnavi Dabare	B.Sc.III	7385142662
o 15	Aishwarya Mendwade	B.Sc.II	8668247334
o 16	Anushka Palandurkar	B.Sc.II	7666571986
✓ 17	Arya Wuikey	B.Sc.II	7558438728
✓ 18	Huzefa Arviwala	B.Sc.II	7249862390
✓ 19	Mayur Maskhare	B.Sc. II	9109223183
✓ 20	Kshitij Gupta	B.Sc.II	7620025848
o 21	Mandar Sulakhe	B.Sc.II	9307223052
✓ 22	Mughdha Dakhole	B.Sc.II	8600142158
✓ 23	Poorva Adhau	B.Sc.II	9049882535
✓ 24	Rajvee Sontakke	B.Sc.II	7045855958
✓ 25	Soksham Dhok	B.Sc.II	9075866228
✓ 26	Tanu Tomar	B.Sc.II	8905587340
o 27	Vruddhi Niranjane	B.Sc.II	9021770557
✓ 28	Aayesha Jabeen	B.Sc.I	7387244859
✓ 29	Ananya Sulakhe	B.Sc.I	7972866369
✓ 30	Jatin Karde	B.Sc.I	7875723214
✓ 31	Reetika Uikey	B.Sc.I	7083405331
✓ 32	Yugansh Kanoje	B.Sc.I	9309271163

*Uma*


*Prerna*  
*Rahul*  
*Vedant*  
*Yash*  
*Samiksha*  
*Nakul*  
*Shraddha*  
*Gargi*  
*Gauri*  
*Mohit*  
*Samiksha*  
*Shreevasta*  
*Tanmay*  
*Vaishnavi*  
*Aishwarya*  
*Anushka*  
*Arya*  
*Huzefa*  
*Mayur*  
*Kshitij*  
*Mandar*  
*Mughdha*  
*Poorva*  
*Rajvee*  
*Soksham*  
*Tanu*  
*Vruddhi*  
*Aayesha*  
*Ananya*  
*Jatin*  
*Reetika*  
*Yugansh*









 GPS Map Camera

Nainital, Uttarakhand, India

9F65+28M Manora peak, Nainital, Beluwakhan, Uttarakhand 263002, India

Lat 29.361028°

Long 79.458585°

11/03/24 11:48 AM GMT +05:30

Google

**Shri Shivaji Education Society Amaravati's  
Science College, Congress Nagar, Nagpur  
Department of Physics**

**Exploring the Cosmos: A Journey to ARIES Laboratory, Nainital**

**11<sup>th</sup> March 2024**

**Name of Teacher : Dr. S. W. Anwane**

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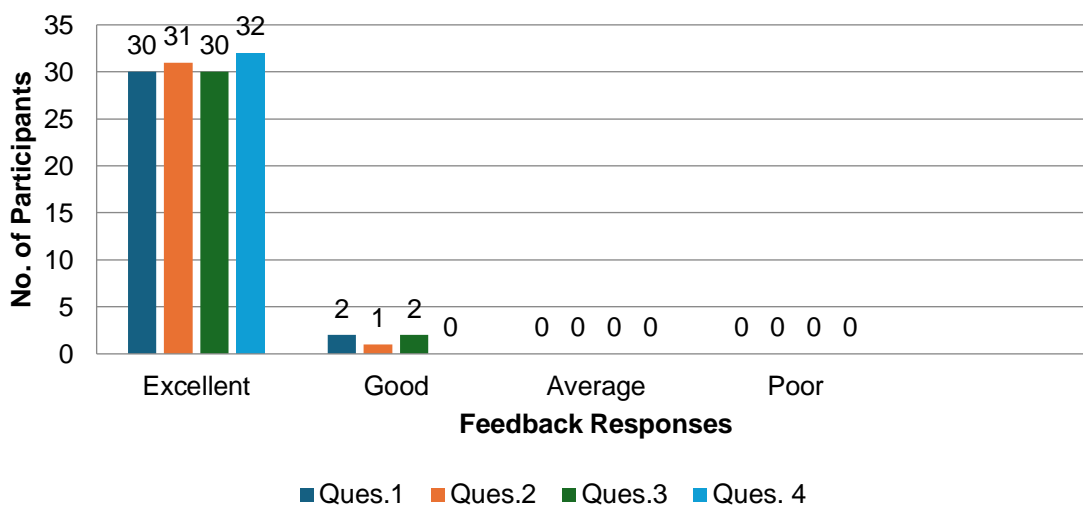
**Feedback Form**

Name of Student :

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- 1) How clear were the instructions provided for the physics activities?  
 Excellent  
 Good  
 Average  
 Poor
- 2) How engaging did you find the physics activities?  
 Excellent  
 Good  
 Average  
 Poor
- 3) To what extent did the activities help you grasp the key concepts of the lesson?  
 Excellent  
 Good  
 Average  
 Poor
- 4) How appropriate were the difficulty levels of the physics activities for your current understanding?  
 Excellent  
 Good  
 Average  
 Poor

## Exploring the Cosmos: A Journey to ARIES Laboratory, Nainital



Dr A A Halder  
Coordinator, IQAC  
Science College,  
Congress Nagar, Nagpur

Prof. M. P. Dhore  
Principal  
Science College,  
Congress Nagar, Nagpur

