



Samarth Rural Educational Institute's
SAMARTH INSTITUTE OF PHARMACY BELHE.

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Field Visit Report on Science Exhibition at GMRT

On

The Occasion of National Science Day

- Venue: GMRT, Khodad
- Date: 28/02/2024
- Time: 9:00Am to 4:00Pm

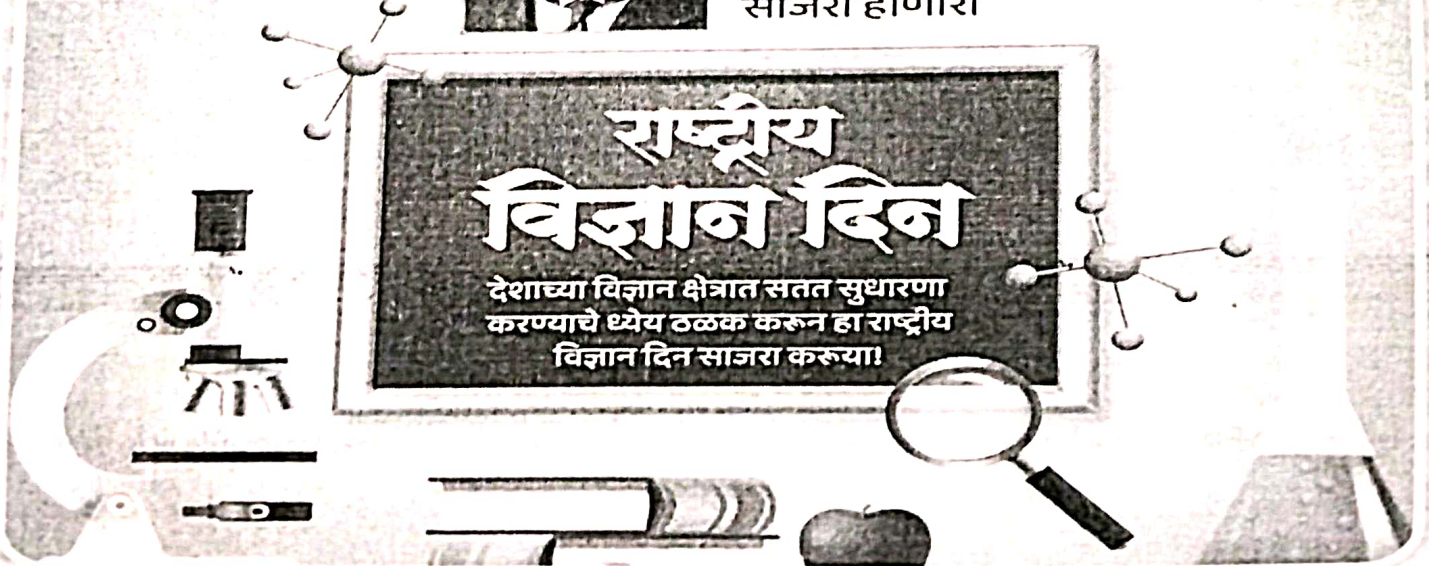
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फेब्रुवारी



भौतिक शास्त्रातील
नोबेल पारितोषिक विजेते
डॉ. सी. व्ही. रमन
यांच्या स्मरणार्थ
साजरा होणारा

**राष्ट्रीय
विज्ञान दिन**

देशाच्या विज्ञान क्षेत्रात सतत सुधारणा
करण्याचे ध्येय ठळक करून हा राष्ट्रीय
विज्ञान दिन साजरा करूया!



On the occasion of National Science Day 2024, a field visit was organized to the Giant Metrewave Radio Telescope (GMRT) located at Khodad, Maharashtra. The objective of this visit was to gain insights into the latest advancements in science and technology, particularly in the field of radio astronomy. The visit provided an opportunity for students and faculty members to understand the research methodologies, technological innovations, and scientific applications associated with GMRT.

Overview of GMRT GMRT, operated by the National Centre for Radio Astrophysics (NCRA) under the Tata Institute of Fundamental Research (TIFR), is one of the world's most advanced radio telescope arrays. It consists of 30 fully steerable parabolic dishes, each with a diameter of 45 meters, spread over a 25 km radius. GMRT is instrumental in observing low-frequency radio waves from cosmic sources, contributing significantly to astrophysics and cosmology.

Purpose of the Visit The visit was aimed at:

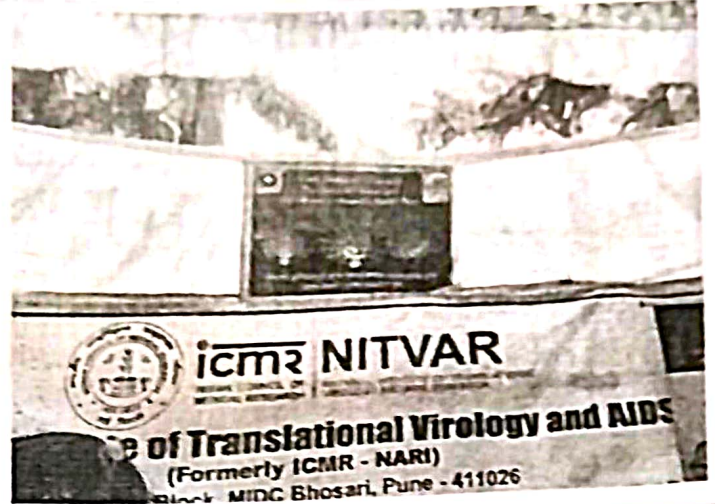
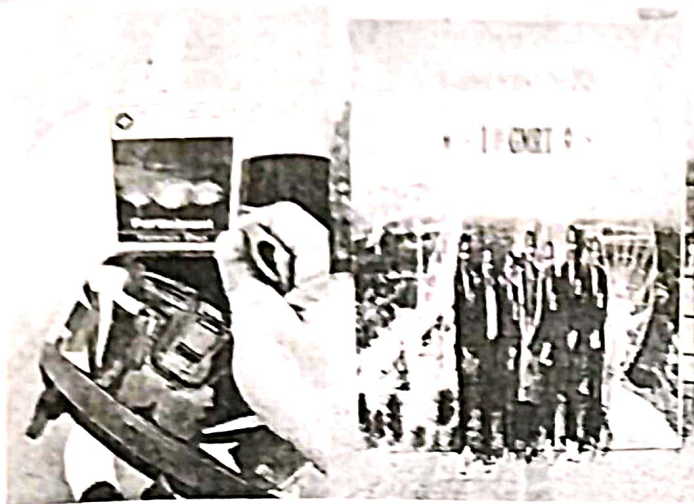
- Understanding the working principles and functioning of GMRT.
- Exploring recent research developments in radio astronomy.
- Learning about data analysis techniques used in astrophysical studies.
- Encouraging interest in scientific research among students.

Key Highlights of the Visit

- **Introduction and Orientation:** The visit began with an introductory session by the GMRT scientists, who explained the significance of GMRT in modern astronomy.
- **Tour of the Facility:** The participants were taken on a guided tour of the control room, antenna array, and data processing units.
- **Technical Demonstrations:** Experts demonstrated the data collection and signal processing techniques used in astronomical research.
- **Interaction with Scientists:** Students had an engaging Q&A session with researchers discussing topics such as pulsar observations, black holes, and the search for extraterrestrial intelligence.
- **Recent Research Insights:** The team at GMRT shared details about recent discoveries and ongoing projects, including collaborations with international space agencies and research institutions.

Outcomes The field visit enriched the participants with valuable knowledge on:

- The role of radio telescopes in space exploration.
- The significance of GMRT in international research collaborations.
- Advanced technologies employed in astrophysics and data science.
- Career opportunities in the field of astronomy and scientific research.



During the field visit at GMRT, Khodad

Attendance student at GMRT Field Visit 2024-25

Sr. No.	Name of Student	Class	Signature
1]	Shelke Rathamesh	F.Y. B-Pharmacy	Shelke
2]	Sonawane Sakshi	F.Y. B- pharmacy	Sonawane
3]	Shai kh Inayat Ali	F.Y. B - pharmacy	Shai kh
4]	Thorat Divya	F.Y. B- pharmacy.	Thorat
5]	Sherkar Sanika	f.y . B - pharmacy.	S. N. Sherka
6]	Sonawane Sakshi	f.y . B- Pharmacy	Sonawane
7]	Vite Ishwari	F.Y B- pharmacy	Vite
8]	Thorat Shravani	F.Y. B - pharmacy.	Thorat

9	Thange Aditi Ashok	F.Y.B. Pharmacy	<u>Aditi</u>
10	Zinjad Shreyu Satish	F.Y.B. Pharmacy	Shreyu
11	Walunj Vaishnavi S	F.Y.B. Pharmacy	<u>Vaishnavi</u>
12	Waghmode pranali	F.Y.B. Pharmacy	<u>Pranali</u>
13	Walunj Sakshi	F.Y.B. - Pharmacy	S.D. Walunj
14	Shinde Manisha	F.Y.B. - Pharmacy	Shinde M.
15	Sapate Supriya	F.Y.B. Pharmacy	<u>Sapate</u>
16	Satpute Vaishnavi	F.Y.B. Pharmacy	<u>V.H. Satpute</u>
17	Salkhe Vaishnavi	F.Y.B. Pharmacy	<u>Salkhe V.B.</u>
18	Patel Jishan	F.Y.B. Pharmacy	<u>Jishan</u>

2nd year D Pharmacy

1)	More Vaishnavi	S.Y.D Pharmacy	<u>More</u>
2)	Chaudhari Trupti	S.Y.D Pharmacy	<u>Trupti</u>
3)	Arote Dhanashri	S.Y.D Pharmacy	<u>Arote</u>
4)	Zinjad Swaranjali	S.Y.D Pharmacy	<u>Zinjad</u>
5)	Meher Aparna	S.Y.D Pharmacy	<u>Meher</u>
6)	Shinde Sakshi	S.Y.D Pharmacy	<u>Sakshi</u>
7)	Sanjana Shinde	S.Y.D Pharmacy	<u>Shinde</u>
8)	Dodge Vaishnavi	S.Y.D Pharmacy	<u>Dodge</u>
9)	Sakshi Bhandhavi	S.Y.D Pharmacy	<u>Sakshi</u>
10)	Saiya Sayyed	S.Y.D Pharmacy	<u>Saiya</u>
11)	Gradage Sagar	S.Y.D Pharmacy	<u>Gradage</u>
12)	Tamsire Omkar	S.Y.D Pharmacy	<u>Omkar</u>
13)	Mali Nikita	S.Y.D Pharmacy	<u>Mali</u>