



Mahatma Phule Shikshan Sanstha's
KARMAVEER BHAURAO PATIL COLLEGE,
URUN-ISLAMPUR
DEPARTMENT OF PHYSICS



Activity
Guest Lecture on "Aerogel: A Wonder Material" and Career Opportunities in Physics

Date: 23/02/2025

Notice

Department of Physics is organizing a Guest Lecture by Dr. Ashwini Vijaykumar Patil on 25/02/2025 at 2:30 pm. She will discuss on the subject of “Aerogel: A wonder Material”. All the students of B. Sc. Physics are instructed to remain present for the same.

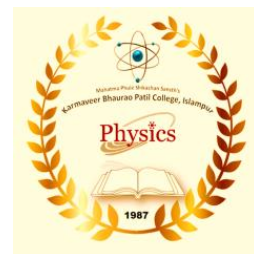
Place: Department of Physics

Time: 2:30 pm

Head
Department of Physics
Karmaveer Bhaurao Patil College
Urun-Islampur, Dist-Sangli-415409



Mahatma Phule Shikshan Sanstha's
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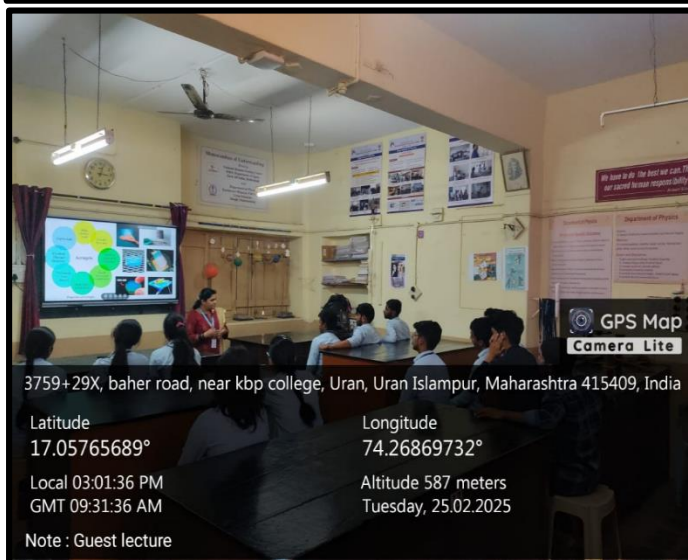
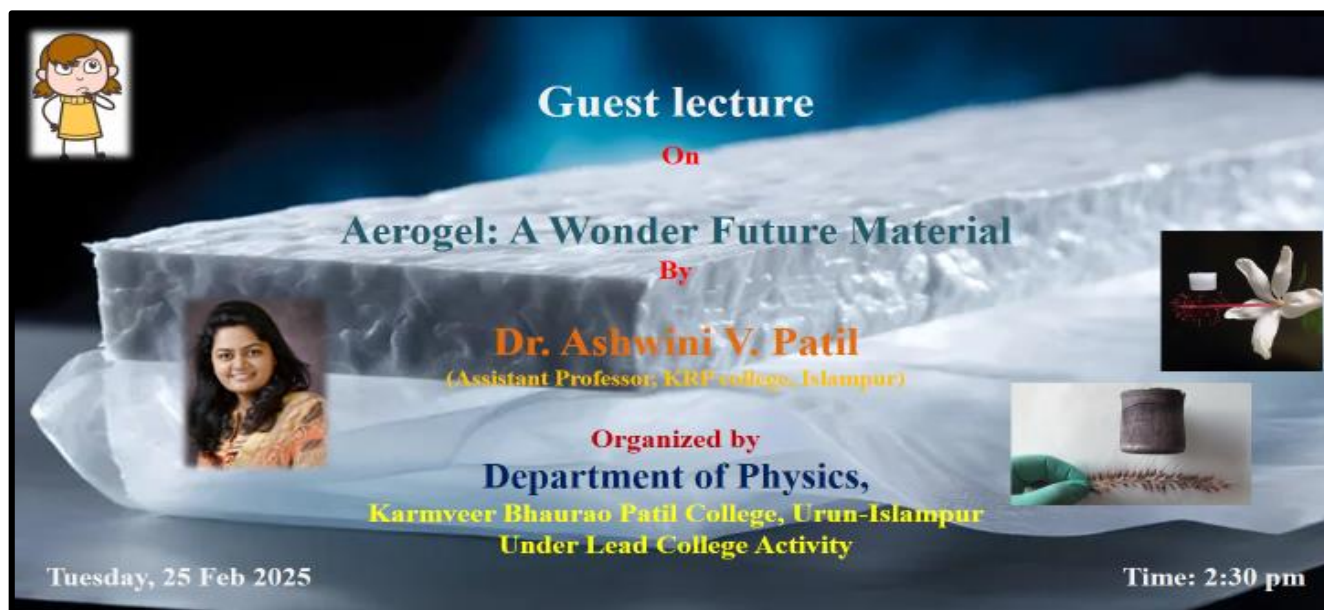


Activity

Guest Lecture on "Aerogel: A Wonder Material" and Career Opportunities in Physics

Photo Gallery

Date: 25/02/2025



3759+29X, baher road, near kbp college, Uran, Uran Islampur, Maharashtra 415409, India

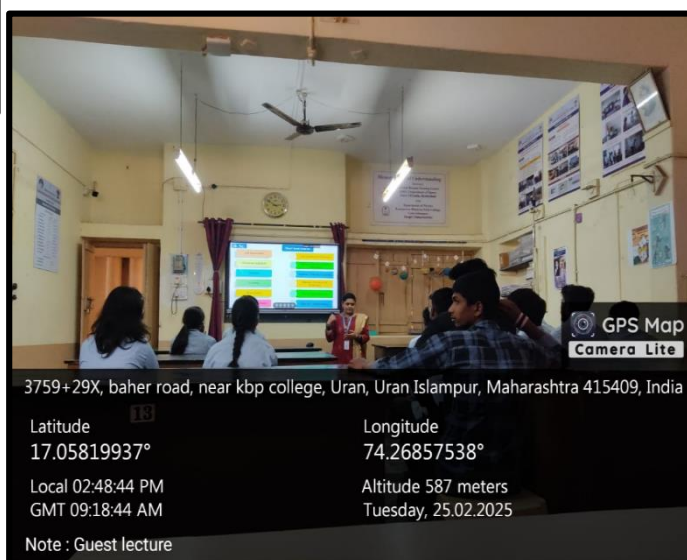
Latitude
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Longitude
74.26869732°

Local 03:01:36 PM
GMT 09:31:36 AM

Altitude 587 meters
Tuesday, 25.02.2025

Note : Guest lecture



3759+29X, baher road, near kbp college, Uran, Uran Islampur, Maharashtra 415409, India

Latitude
17.05819937°

Longitude
74.26857538°

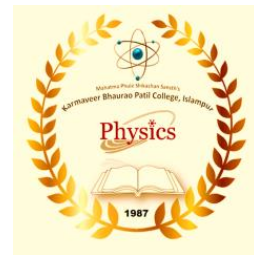
Local 02:48:44 PM
GMT 09:18:44 AM

Altitude 587 meters
Tuesday, 25.02.2025

Note : Guest lecture



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Activity
Guest Lecture on "Aerogel: A Wonder
Material" and Career Opportunities in Physics

Date: 25/02/2025

Activity Title: Guest Lecture on "Aerogel: A Wonder Material" and Career Opportunities in Physics

Date: 25/02/2025

Venue: Department of Physics, KBP College, Islampur

❖ **Introduction:**

The Department of Physics at KBP College, Islampur, organized a guest lecture for BSc students on the topic "Aerogel: A Wonder Material". The session was conducted by Dr. Ashwini Patil, Assistant Professor, KRP College, Islampur. This event was designed to provide students with a deeper understanding of aerogels, a cutting-edge material, and to explore the various career opportunities available in the field of physics. The lecture aimed to inspire students to delve further into the field of physics and encourage them to consider potential career paths.

❖ **Objective:**

- ✚ The primary objectives of this guest lecture were to:
- ✚ Introduce BSc students to aerogels, an emerging material with diverse applications.
- ✚ Educate students on the scientific properties, production methods, and uses of aerogels in modern technology.
- ✚ Highlight various career opportunities in physics and related fields.
- ✚ Motivate students to pursue further studies and research in material science, physics, and other interdisciplinary areas.

❖ **Summary:**

Dr. Ashwini Patil delivered an insightful lecture covering two main topics: Aerogels and Career Opportunities in Physics. Dr. Patil began by explaining the fundamental properties of aerogels, emphasizing their ultra-low density and high porosity and lightweight nature, which make aerogels ideal for various applications. She further discussed different types of aerogels such as Silica aerogels, Polymer aerogels, and Carbon aerogels. Dr. Patil outlined the synthesis methods of these aerogels and discussed their role in sectors such as aerospace, environmental conservation, and energy efficiency.

Dr. Patil provided a broad view of career paths in the field of physics, encouraging students to explore research and development in material science, nanotechnology, and energy. Career opportunities in academic and industrial sectors, including quantum physics, astrophysics, and engineering physics and many more. The growing importance of interdisciplinary knowledge and the relevance of physics in addressing modern challenges like climate change and renewable energy solutions are also discussed.

❖ **Conclusions:**

The guest lecture successfully achieved its objectives, providing BSc students with a detailed understanding of aerogels and their potential applications. The session also inspired students to think beyond traditional career options and explore the various opportunities within the broad spectrum of physics and material sciences.

Dr. Ashwini Patil's expertise and engaging presentation not only helped students understand the importance of aerogels in the modern world but also gave them a clear perspective on how to chart a career in physics. Her advice and guidance opened students' eyes to the vast and exciting career prospects in both academic and industrial fields.

❖ **Feedback:**

The feedback from the students and faculty members was overwhelmingly positive. The students appreciated the clarity of Dr. Patil's explanations and the

relevance of the topics discussed. They were particularly excited about the career opportunities section, which provided valuable insights into the various avenues they could explore post-graduation.

- ✚ Engagement: The session was highly interactive, with students asking questions and engaging with the speaker on both the technical aspects of aerogels and their future careers.
- ✚ Relevance: Students found the information about aerogels and their applications in industries like aerospace and environmental science particularly interesting and relevant.
- ✚ Career Guidance: The career advice given by Dr. Patil was considered invaluable, with many students expressing that they now feel more motivated to pursue higher studies or research in physics.

The event was considered a huge success in enhancing students' knowledge and providing them with practical career insights.



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KARMAVEER BHAURAO PATIL COLLEGE,
URUN-ISLAMPUR

Department of Physics

(2024-25)

Class:- B.Sc.- III and II



Attendance

Title of Activity: Guest Lecture on Aerogel

Venue: Department of Physics

Date: 25/02/2025

Sr.no	Name of Student	Signature
1	Jadhav Prasad Shahaji	
2	Satpute Harshwardhan Deorak	
3	Shikalgar main Samir	
4	Jadhav Pratik Parnach	
5	Kesare Harshad Tukaram	
6	Suraj More	
7	Raj Patangrao Koli	
8	Rohit Surash Bunsade	
9	Mane Ajinkya Shiveji	
10	Nikita Dattatray Khorade	
11	Sayale Mahadev Bhadlakimkar	
12	Tanuja Uttam Khorade	
13	Jagtap Sakshi Tanaji	
14	Palil Prachi Sunil	
15	Desai Akash Sahaj	
16	Sutar Ashish Sahaj	
17	Patil Shubham Billa	
18	Deshmukh Avinash M	
19	Mandale Vaishnavi Ashok	
20	Mandale sakshi sagannath	



Mahatma Phule Shikshan Sanstha's
KARMAVEER BHAURAO PATIL COLLEGE,
URUN-ISLAMPUR
Department of Physics
(2024-25)
Class- B.Sc.- III and II



Attendance

Title of Activity: Guest Lecture on Aerogel

Venue: Department of Physics

Date: 25/2/2025

Sr.no	Name of Student	Signature
1	Patil Amruto Suresh	
2	Khot Sanika mahadev	
3	Pujari Shital Rahul	
4	Dhanavade Akash shikaji	
5	Khandekar Abbashek Ramchandra	
6		
7	Pandhi dagas.	
8	Sawant Sumon A.	
9	Patil Poorna U	
10	Methe Y.S.	
11	Patil T. A.	
12	Mr. V. P. Telu	
13	S. M. Jander	
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