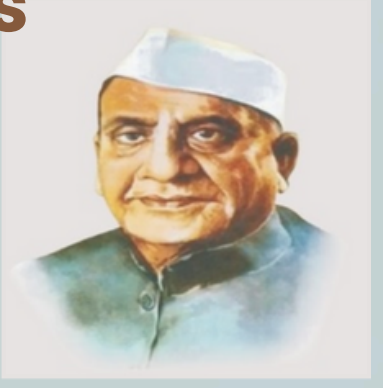




Shri Shivaji Education Society Amravati's

SCIENCE COLLEGE

Congress Nagar, Nagpur- 12 (MS)



Reassessed with A+ Grade with CGPA 3.51 by NAAC, Bangalore
College with Potential for Excellence identified by UGC New Delhi

Institutional Member of APQN

Recognized Centre for Higher Learning and Research

Mentor College under Paramarsh Scheme

An ISO 21001:2018 Certified Institution

NIRF ranking (HRD Ministry) 201-300

Invitation

GUEST LECTURE

organized by

Physics Society

By

Prof. O. P. Chimankar

Head,

Department of Physics RTMNU, Nagpur

**Topic: Propagation of Ultrasonic Waves and
its novel applications**

Date-21 Sept. 2024

Time- 11.00AM

Room No C4

Dr. S V Khangar

Prof. S W Anwane

Convener, Physics Society

Head, Department of Physics

Dr. O S Deshmukh

Principal



Shri Shivaji Education Society Amravati's
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CONGRESS NAGAR, NAGPUR.



**SCIENCE ASSOCIATION
PHYSICS SOCIETY 2024-25**

Dr. O S Deshmukh
Principal

Dr. S W Anwane
Professor & Head
9422122711

Dr. S V Khangar
Convener
9975768840

Date:- 17/09/2024

NOTICE

All the Faculty members of the department, office bearers of Physics Society, B. Sc. Final Year and M. Sc. Students of the department of Physics are hereby informed that a **Guest lecture by Prof. O. P. Chimankar, Head Department of Physics RTMNU, Nagpur** on the topic *Propagation of Ultrasonic Waves and its novel applications* is organized in Classroom C4 on 21/09/2024 at 11am.

Co-conveners

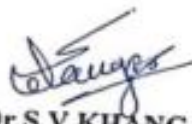
Dr. Mrs R N Pathare
Mr. B. T. Kumbhare
Dr. (Ms) Shahin K. Sayyad
Dr. Gajanan L. Jadhav
Dr. Sarang Daf
Ms. Kanchan Jinapurkar
M.s Chanda Jatgade

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9370875343- (B. Sc. 1st year)
Ms Hansika Jamgade B Sc I
743890817
Ms Ekta Khursankar B Sc I
9022293094
Ms Aarohi Tembhurne B Sc I
9561683798


Dr S V KHANGAR
Dr. S. V. Khangar
Assistant Professor
Department of Physics
Shivaji Education Society Amravati's
Science College
Congress Nagar, Nagpur-440011

Dr S V KHANGAR


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

Dr S W ANWANE

Shri Shivaji Education Society Amravati's

Science College

Congress Nagar Nagpur

Department of Physics

Report on Guest Lecture

A highly interactive and insightful guest lecture by Dr. O. P. Chimankar, Professor and Head of the Department of Physics, on "Propagation of Ultrasonic Waves and Their Novel Applications," was organized by the Department of Physics, Shri Shivaji Science College, Congress Nagar, Nagpur, under the auspices of the Physics Society on 21st September 2024 at 11:00 AM. A total of 62 students and faculty members participated in this engaging session.

Dr. Chimankar delivered an enthusiastic and informative presentation that delved into the key aspects of ultrasonic waves, covering topics such as:

- **Fundamentals of Ultrasonic Waves:** Definition, characteristics, and the mechanisms of wave propagation through various media.
- **Techniques for Generating Ultrasonic Waves:** A discussion on transducers and their role in generating and detecting ultrasonic waves.
- **Novel Applications of Ultrasonic Waves:**
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 - **Industrial Applications:** The role of ultrasonics in non-destructive testing (NDT) and material characterization.
 - **Environmental Monitoring:** How ultrasonic waves are employed to detect pollutants and monitor wildlife.

The lecture was structured to blend theoretical concepts with practical examples, ensuring it was accessible and informative for all attendees. Following the presentation, an interactive Q&A session saw active participation from the students. Notably, Yugansh Kanoje inquired about the limitations of ultrasonic technology

in medical applications, while Aishwarya asked for further explanation regarding its environmental applications. Dr. Chimankar responded thoroughly, encouraging students to explore further research in the field. The session was a resounding success, offering valuable insights and sparking curiosity about the diverse applications of ultrasonic waves.

The event began with a warm welcome from Miss Aishwarya Mendhwade, followed by Dr. S. V. Khangar and Prof. S. W. Anwane welcoming Dr. O. P. Chimankar and the Principal of the college, Dr. O. S. Deshmukh. The dignitaries paid tribute to the portraits of Shri Shivaji Education Society's founder president, Dr. Panjabrao Alias Bhausahab Deshmukh, and Rastrasant Tukdoji Maharaj.

Dr. Deshmukh shared guidance on innovation and creativity in the field of ultrasonics. Prof. S. W. Anwane, Head of the Department of Physics, delivered the introductory speech, highlighting the role of the Physics Society and the significance of the guest lecture. Dr. S. V. Khangar, Convener of the Physics Society, introduced the guest speaker. Miss Aishwarya Mendhwade served as the master of ceremonies, Miss Sarvani sang the welcome song, and Miss Anushka Palandurkar extended her gratitude to all dignitaries, faculty, and students.

The faculty members of the Department of Physics, including Mr. B. T. Kumbhare, Dr. Shahin Sayyed, Dr. G.L. Jadhav, Dr. Sarang Daf, Miss Kanchan Jivanapurkar, Miss Chanda Jatgade, and Dr. Priyanka Virutkar, along with the Physics Society office bearers and the non-teaching staff, worked diligently to ensure the smooth and successful execution of the program.


Action Taken Report:

The Department of Physics, Shri Shivaji Science College, Congress Nagar, Nagpur, successfully organized an interactive and impactful guest lecture by Dr. O. P. Chimankar, Professor and Head of the Department of Physics, on the topic "Propagation of Ultrasonic Waves and Its Novel Applications." This event, conducted under the auspices of the Physics Society, took place on 21st September 2024 at 11:00 AM.

A total of 62 students and faculty members actively participated in the program, which was designed to provide a comprehensive understanding of the subject matter. The lecture proved to be highly engaging and informative, offering valuable insights into the propagation and applications of ultrasonic waves.


Dr S V KHANGAR
Dr. S. V. Khangar
Assistant Professor
Department of Physics
Shivaji Education Society Amravati's
Science College
Congress Nagar, Nagpur-440011

Convener Physics Society


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

Head of the Dept. of Physics


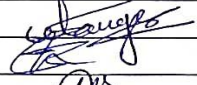


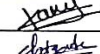


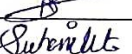
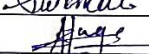
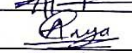
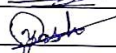
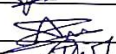

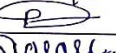
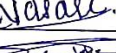
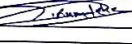

Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE
Congress Nagar, Nagpur
Department of Physics

PHYSICS SOCIETY
Event: Guest Lecture

Topic: Propagation of Ultrasonic Waves and its novel Applications
Guest Speaker: Prof. O. P. Chimankar


Date : 21/09/2024

Time : 11:00 am

Sr. No.	Name	Signature
1	Dr. S. W. Anwane	
2	Dr. R. N. Pathare	
3	Dr. S. V. Khangar	
4	Mr. B. T. Kumbhare	
5	Dr. S. K. Sayyad	
6	Dr. G. L. Jadhav	
7	Ms. K. B. Jivnapurkar	
8	Ms. C. P. Jatgade	
9	Dr. Sarang Daff	
10.	Raivee Sontakke (M2)	
11.	Suhani Rameshwar Lute PCM (M2)	
12.	Suhani Anand Tonge PCM (M2) - V-Sem	
13.	Arya Vinod Ratthe PCSM (M7)	
14.	Yashwardhan Tubid PCSM (M7)	
15.	Anurag Avin Bawankule (M6)	
16.	Vedant Gaiki (M6)	
17.	Prachi Thakare (M7)	
18.	Nikhil Nasre (M7)	
19.	Shashank Ramteke (M7)	

20.	Neha Khandate (M6)	ND
21.	Sujal Kankar (M6)	Sujal Kankar
22.	Saloni Ganvir (M6)	Saloni
23.	Sanika B. Marwade (M7)	Marwade
24.	Sanika R. Kashkar (M6)	Sanika
25.	Sayli V. Hedau (M6)	Sayli
26.	Sonu S. Chanode (M6)	Sonu
27.	Vanshika K. Gajbe (P2)	Vanshika
28.	Tejaswini U. Kalambe (P2)	Tejaswini
29.	Priya R. Tiwari (M7)	Priya
30.	Rajvi P. Mamulkar (M7)	Mamulkar
31.	Harshit Mousya (M7)	Harshit
32.	Sanika R. Chauhan (M6)	Sanika
33.	Mygdha Dhakhole (M6)	Mygdha
34.	Vriddhi Nixanjane (M7)	Vriddhi
35.	Chetana Pardhi (M7)	Chetana
36.	Ranita Aglawe (Msc. II)	Ranita
37.	Prerna Patil (M-7)	Prerna
38.	Smita Waidhane (M-6)	Smita
39.	Sayali Mankat (M-7)	Sayali
40.	Tanu Tomar (M-2)	Tanu
41.	Saksham Dhak (M-1)	Saksham
42.	Tasmiya Baig (M-1)	Tasmiya
43.	Madhusima Gonnade (M-1)	Madhusima
44.	Swejal Gajbhiye (M-1)	Swejal
45.	Gunjan Radke (M-7)	Gunjan
46.	Aishwarya Mendwade (M2)	Aishwarya
47.	Anushka Palandunkar (G3)	Anushka
48.	Huzefa Animwala	Huzefa
49.	Aayesha Gabeen (G3)	Aayesha

50.	Shraddha V. Raut (Physics) M.sc.II	Shraddha
51	Sahwani A Dahikar (BS)	Sahwani
52.	Sejal Tandekar (Physics) Bsc. 1 st	Sejal
53	Ekta Khuypankar (Physics) Bsc 1 st year	Ekta
54.	Hansika Jamgade (physics) BSc 1 st year	Hansikajamgade
55.	AAROH TEMBHURNE (Physics) Bsc. 1 st	A. Tembhurne
56.	PARAS ATRAM (physics) BSC 1 st	Paras
57	Pratik. Upasak (Physics) BSC 1 st .	Pratik
58	Pallavi. Sarvesh (Physics) BSC 1 st .	Pallavi Sarvesh
59	Dr. Priyanka D. Vinthar (CHB)	Priyanka
60)	D. G. FURK	D. G. Furk
61)	R. B. Nalk	R. B. Nalk
62)	अरुण जोशी	अरुण जोशी


 (President of Physics Society)

**Shri Shivaji Education Society Amaravati's
Science College Congress Nagar, Nagpur"**

Department of Physics

Guest Lecture

"Propagation of Ultrasonic Waves and its Novel Applications"

Date: 21/09/2024

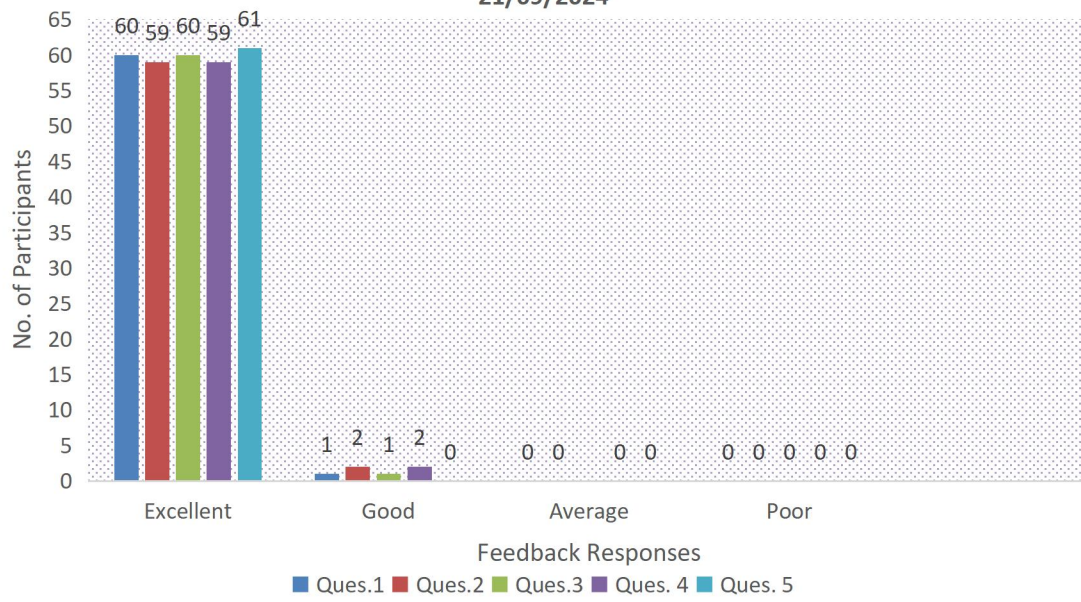
Feedback Form

Name : _____

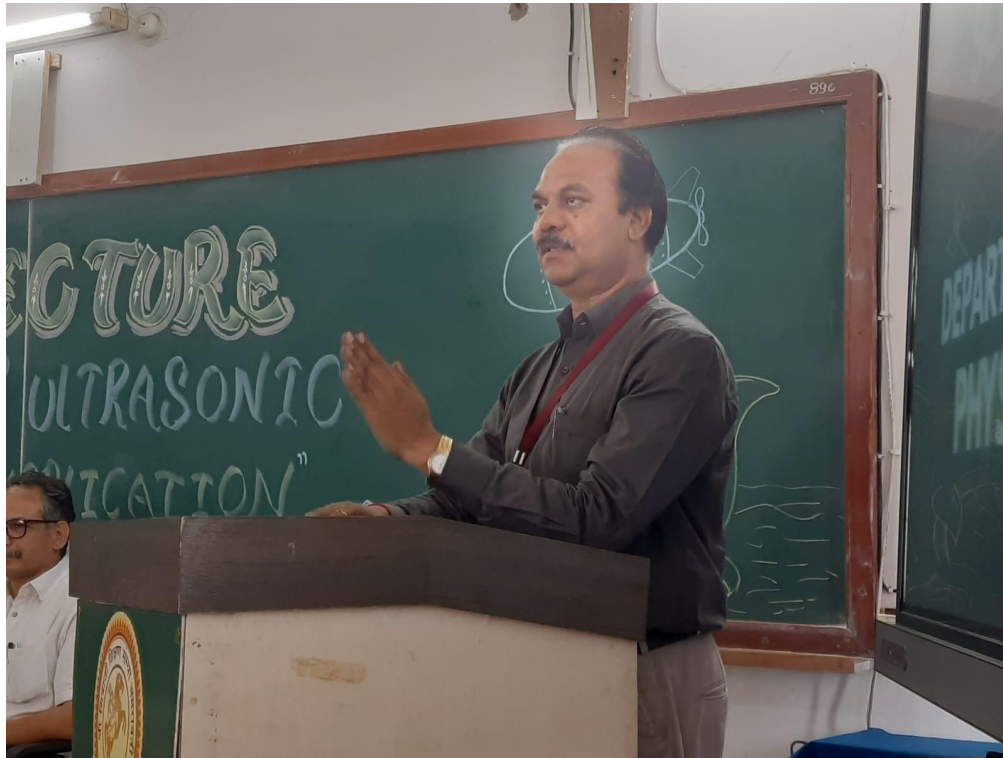
- 1) How would you rate the guest speaker's knowledge on the subject?
 - Excellent
 - Good
 - Fair
 - Poor
- 2) How would you rate the guest speaker's presentation style?
 - Excellent
 - Good
 - Average
 - Poor
- 3) How relevant was the content to your course or field of study?
 - Extremely
 - Mostly
 - Somewhat
 - Neutral
- 4) How satisfied were you with the guest lecture overall?
 - Excellent
 - Good
 - Fair
 - Poor
- 5) How would you rate the speaker's ability to engage and interact with the audience?
 - Excellent
 - Good
 - Average
 - Poor

Feedback on Guest Lecture

21/09/2024



Glimpses:









Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE
CONGRESS NAGAR, NAGPUR.



**SCIENCE ASSOCIATION
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Dr. O S Deshmukh
Principal

Dr. S W Anwane
Professor & Head
9422122711

Dr. S V Khangar
Convener
9975768840

Date:- 24/09/2024

News Item for Local Daily

A highly interactive and insightful guest lecture by Dr. O. P. Chimankar, Professor and Head of the Department of Physics, on "Propagation of Ultrasonic Waves and Their Novel Applications," was organized by the Department of Physics, Shri Shivaji Science College, Congress Nagar, Nagpur, under the auspices of the Physics Society on 21st September 2024 at 11:00 AM. A total of 62 students and faculty members participated in this engaging session.

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Ms. Kanchan Jinapurkar
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Office Bearers

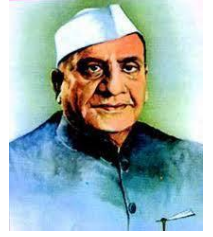
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President- 8668247334
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Jt. Secretary -9423854616
Mr. Jatin Karde B Sc II
Treasurer- 7875723214

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- 8855044167
Mr. Mohit Dhandale B Sc I
9370875343- (B. Sc. 1st year)
Ms Hansika Jamgade B Sc I
743890817
Ms Ekta Khursankar B Sc I
9022293094
Ms Aarohi Tembhumne B Sc I
9561683798



**Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE
CONGRESS NAGAR, NAGPUR.**



**SCIENCE ASSOCIATION
PHYSICS SOCIETY 2024-25**

The event began with a warm welcome from Miss Aishwarya Mendhwade, followed by Dr. S. V. Khangar and Prof. S. W. Anwane welcoming Dr. O. P. Chimankar and the Principal of the college, Dr. O. S. Deshmukh. The dignitaries paid tribute to the portraits of Shri Shivaji Education Society's founder president, Dr. Panjabrao Alias Bhausaheb Deshmukh, and Rastrasant Tukdoji Maharaj.

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Dr S V KHANGAR

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Science College
Congress Nagar, Nagpur-440012

Convener Physics Society



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

Head of the Dept. of Physics



Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE
CONGRESS NAGAR, NAGPUR.



SCIENCE ASSOCIATION
PHYSICS SOCIETY 2024-25

श्री शिवाजी विज्ञान महाविद्यालयात अल्ट्रासोनिक तरंगांवर अतिशय माहितीपूर्ण व्याख्यान

श्री शिवाजी विज्ञान महाविद्यालय, काँग्रेस नगर, नागपूरच्या भौतिकशास्त्र विभागाने भौतिकशास्त्र सोसायटीच्या सौजन्याने 21 सप्टेंबर 2024 रोजी सकाळी 11:00 वाजता "अल्ट्रासोनिक तरंगांचे प्रसारण आणि त्याचे नवीन उपयोग" या विषयावर अतिशय माहितीपूर्ण आणि संवादात्मक व्याख्यान आयोजित केले. हे व्याख्यान डॉ. ओ. पी. चिमणकर, प्राध्यापक आणि भौतिकशास्त्र विभागाचे प्रमुख यांनी दिले. या कार्यक्रमात 62 विद्यार्थी आणि शिक्षकांनी सहभाग घेतला.

डॉ. चिमणकर यांनी अल्ट्रासोनिक तरंगांच्या विविध महत्त्वाच्या बाबींवर सखोल विवेचन केले, जसे की:

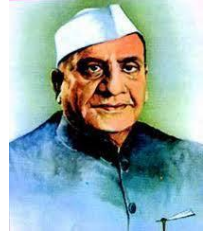
- **अल्ट्रासोनिक तरंगांचे मूलतत्त्व:** त्यांची व्याख्या, वैशिष्ट्ये आणि विविध माध्यमांमधून प्रसारणाचे यंत्रणेसह सविस्तर माहिती.
- **अल्ट्रासोनिक तरंग निर्माण करण्याच्या तंत्रिका:** ट्रान्सड्यूसर आणि अल्ट्रासोनिक तरंग निर्माण आणि शोधण्यासाठी त्यांची भूमिका.
- **अल्ट्रासोनिक तरंगांचे उपयोग:**
 - **वैद्यकीय प्रतिमा तंत्रज्ञान:** निदानासाठी अल्ट्रासोनिक तंत्रज्ञानाचा वापर आणि पारंपारिक प्रतिमा तंत्रज्ञानावर त्याचे फायदे.
 - **औद्योगिक उपयोग:** नॉन-डिस्ट्रक्टिव्ह टेस्टिंग (NDT) आणि साहित्याच्या गुणधर्मांच्या परीक्षणासाठी अल्ट्रासोनिक्सचा वापर.
 - **पर्यावरणीय निरीक्षण:** प्रदूषक शोधण्यासाठी आणि वन्यजीवांचे निरीक्षण करण्यासाठी अल्ट्रासोनिक तरंगांचा वापर.

हे व्याख्यान सैद्धांतिक संकल्पना आणि व्यावहारिक उदाहरणांचा समन्वय साधून रचलेले होते, ज्यामुळे उपस्थितांसाठी विषय सहज समजण्याजोगा आणि मनोरंजक झाला. सत्रानंतर झालेल्या प्रश्नोत्तरांमध्ये विद्यार्थ्यांनी उत्साहाने सहभाग घेतला. युगांश कनोजे यांनी वैद्यकीय तंत्रज्ञानातील अल्ट्रासोनिकच्या मर्यादांबद्दल प्रश्न विचारला, तर ऐश्वर्याने पर्यावरणीय उपयोगांबद्दल अधिक माहिती विचारली. डॉ. चिमणकर यांनी सर्व प्रश्नांचे सविस्तर उत्तर देत विद्यार्थ्यांना या क्षेत्रात पुढील संशोधन करण्यास प्रोत्साहित केले.

कार्यक्रमाची सुरुवात मिस ऐश्वर्या मेंढवाडे यांनी केलेल्या स्वागताने झाली, त्यानंतर डॉ. एस. व्ही. खंगार आणि प्रा. एस. डब्ल्यू. अनवाणे यांनी डॉ. ओ. पी. चिमणकर आणि महाविद्यालयाचे प्राचार्य डॉ. ओ. एस. देशमुख यांचे स्वागत केले. प्रमुख पाहुण्यांनी श्री शिवाजी शिक्षण समाजाचे संस्थापक अध्यक्ष डॉ. पंजाबराव ऊर्फ भाऊसाहेब देशमुख आणि राष्ट्रसंत तुकडोजी महाराज यांच्या प्रतिमांना अभिवादन केले.



**Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE
CONGRESS NAGAR, NAGPUR.**



**SCIENCE ASSOCIATION
PHYSICS SOCIETY 2024-25**

डॉ. देशमुख यांनी अल्ट्रासोनिक्स क्षेत्रातील नाविन्य आणि सर्जनशीलतेबद्दल मार्गदर्शन केले. भौतिकशास्त्र विभागाचे प्रमुख प्रा. एस. डब्ल्यू. अनवाणे यांनी परिचयात्मक भाषणात भौतिकशास्त्र सोसायटीची भूमिका आणि या व्याख्यानाचे महत्त्व यावर प्रकाश टाकला. भौतिकशास्त्र सोसायटीचे संयोजक डॉ. एस. व्ही. खंगार यांनी प्रमुख पाहुण्यांची ओळख करून दिली. मिस ऐश्वर्या मेंढवाडे यांनी सूत्रसंचालन केले, तर मिस सर्वांनी यांनी स्वागतगीत सादर केले. कार्यक्रमाच्या शेवटी मिस अनुशका पालंदूरकर यांनी सर्व मान्यवर, शिक्षक आणि विद्यार्थ्यांचे आभार मानले.

भौतिकशास्त्र विभागातील श्री बी. टी. कुंभारे, डॉ. शाहिन सय्यद, डॉ. जी. एल. जाधव, डॉ. सरंग दाफ, मिस कंचन जिवनापुरकर, मिस चंदा जटगडे, डॉ. प्रियांका विरुतकर आणि भौतिकशास्त्र सोसायटीच्या पदाधिकाऱ्यांसह गैर-शिक्षक कर्मचाऱ्यांनी कार्यक्रमाच्या यशस्वी आयोजनासाठी परिश्रम घेतले.


Dr S V KHANGAR

Dr. S. V. Khangar
Assistant Professor
Department of Physics
Shivaji Education Society Amravati's
Science College
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Convener Physics Society

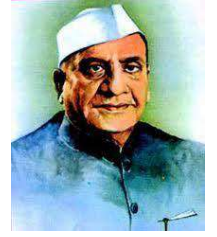


Dr S W ANWANE
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Head of the Dept. of Physics



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743890817
Ms Ekta Khursankar B Sc I
9022293094
Ms Aarohi Tembhurne B Sc I
9561683798

Department of Physics

Date:- 16/09/2024

To,
Prof. O. P. Chimankar,
Professor & Head
Department of Physics
RTMNU, Nagpur

Sub: Invitation for Guest Lecture

Dear Sir,

We are happy to inform you that, Department of Physics, Shri Shivaji Science College, Congress Nagar Nagpur has decided to arrange a guest lecture under the auspices of Physics Society following installation of its office bearers.

We are pleased to invite you for a talk on the topic Ultrasonics. We are confident that our Faculty, Research Scholars, students of UG and PG would be enriched with your lecture.

The topic of your lecture we anticipate is *Propagation of Ultrasonic Waves and its novel applications* to be organized on **Saturday 21/09/2024 at 11:00 am.**

Looking forward for your confirmation.

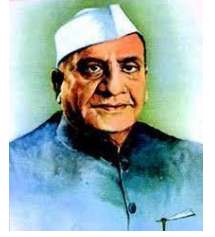
Thanking you,

Yours Faithfully,

(S W ANWANE)



Shri Shivaji Education Society Amravati's
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**SCIENCE ASSOCIATION
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9022293094
Ms Aarohi Tembhurne B Sc I
9561683798

Department of Physics

Date:- 21/09/2024

To,
Prof. O. P. Chimankar,
Professor & Head
Department of Physics
RTMNU, Nagpur

Sub: Invitation for Guest Lecture

Subject: Letter of Appreciation

Dear Sir,

Thank you very much for accepting our invitation delivering informative & thought provoking lecture on "*Propagation of Ultrasonic Waves and its novel Applications*".

It was really a splendid which exposed students to the research practices. All the students are benefitted from your views on this topic.

Looking forward for your cooperation in future as well.

Thanking you,

Yours Faithfully,

(S W ANWANE)