

SSES Amt's Science College, Congress Nagar, Nagpur

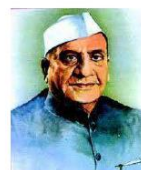
Online National Seminar

Session 2023-2024



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

SCIENCE ASSOCIATION
PHYSICS SOCIETY 2023-24



Dr M P Dhore
Principal

Dr S W Anwane
Professor & Head
9422122711

Dr S V Khangar
Convener
9975768840

Department of Physics

Date:- 24/01/2024

NATIONAL SEMINAR NOTICE

The students of all departments are hereby informed that, under jointly ventured of **Physics Society** of our college & Indian Association of Physics Teachers (IAPT), a **ONE DAY NATIONAL SEMINAR on LIFE AND WORK OF S N BOSE on 27 January 2024 Saturday at 2:00 pm.**

The students are requested to make it possible to remain present 15 minutes before in C4 classroom. Also, the large number of IAPT members across INDIA will be attending it on online platform.

The students who are interested are advised to register for this event through Google Form registration link that will be provided very soon. A Participation certificate will be provided to the participants.

All the office bearers and executive members are advised to remain present for coordination.

Dr S V Khangar
Convener

Dr S W Anwane
Head

Co-conveners

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

Office Bearers

Ms Sakshi Nale M.Sc. 2nd Yr
President (7378881318)

Miss A. Palandurkar B.Sc. 2nd Yr
Vice President (7666571986)

Pranav Lakhe B.Sc. 3rd Yr
Secretary (9822338238)

Ms Snehal Sharma B.Sc. 3rd Yr
Jt Secretary (7972783648)

Purna Ambade M. Sc. 2nd Yr
Treasurer (9022893619)

EXECUTIVE MEMBERS

Mr. Nakul Deogade –
9172548978- (MSc. I st yr)
Miss. Aishwarya Mendwade –
8668247334 (B.Sc. IInd yr)
Mr. Huzefa Arviwala –
7249862390 (B.Sc. IInd yr)
Mr. Jatin Karde-
7875723214 (B.Sc. Ist yr)
Miss. Ayesha Jabeen –
7387244859- (B.Sc. Ist yr)
Miss. Priya Singh-
7821870578- (B.Sc. Ist yr)

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Indian Association of Physics Teachers

Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E

One DAY National Seminar on

Life & Work of S N Bose

Inviting UG, PG Students and Teachers

27th January 2024 2:00 pm onwards

Followed by a Quiz on the topic of Seminar



Guest of Honor



Prof. Mahendra Dhore
Principal
Shri Shivaji Education Society Amravati's
Science College, Nagpur

Guest Speaker



Prof. Sreerup Raychaudhuri
Senior Professor
TIFR, Mumbai

Guest Speaker



Dr. Rajinder Moudgil
Professor at Kurukshetra University
Kurukshetra

Guest Speaker



Prof P K Ahluwalia
President IAPT
Professor at Himachal Pradesh University

Zoom Meeting ID: 859 5199 1380

Passcode: 755511

Organized by :



Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E

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

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Indian Association of Physics Teachers

Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E

One DAY National Seminar on

Life & Work of S N Bose

Inviting UG, PG Students and Teachers

Re-scheduled extension

29th January 2024 3:00 pm



The talk originally scheduled on 27th January 2024 has been rescheduled on **29th of January 2024 at 3:00 PM**. This event serves as an extension of the **One Day Seminar** on the **Life & Work of S N Bose**. We are delighted to announce that Prof. P K Ahluwalia, a distinguished researcher in Condensed Matter Physics and a Professor at Himachal Pradesh University, who also holds the position of National President of IAPT, has graciously agreed to deliver his talk titled "Respected Master: Albert Einstein - A Life from Physics."

Guest Speaker



Prof P K Ahluwalia
President IAPT
Professor at Himachal Pradesh University

Zoom Meeting ID: 869 0377 5173

Passcode: 815889

Organized by :



Sub Regional Council of Maharashtra (Vidarbha) SRC-08 E

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



Table Programme for 29th Jan 2024

The talk originally scheduled on 27th Jan 2024 has been rescheduled to **the 29th of January 2024 at 3:00 PM**. This event serves as an extension of the One Day Seminar on the Life & Work of S N Bose. We are delighted to announce that **Prof. P K Ahluwalia**, a distinguished researcher in Condensed Matter Physics and a Professor at Himachal Pradesh University, who also holds the position of National President of IAPT, has graciously agreed to deliver his talk titled "Respected Master: Albert Einstein – A Life from Physics."

Extension of the ONE DAY National Seminar in Online Mode on topic ***S N Bose - Life & Work*** by IAPT SRC-08 E on **27th Jan 2024 at 2:00 pm**

Sr No	Time	Item
1.	2:45-3:00	Join online Zoom meeting Meeting ID: 869 0377 5173 Passcode: 815889
2.	3:00	Welcome to all the participants and dignitaries by Master of Ceremony Dr G L Jadhav
3.	3:03	Dr G L Jadhav will welcome Prof P K Ahluwalia and will request Prof R M Shewale (President RC-08) to introduce the speaker with the audience. Dr R M Shewale will call the Guest Speaker to deliver his talk.
4.	3:10-4:10	Prof P K Ahluwalia on the topic Respected Master: Albert Einstein - A Life from Physics
5.	4:10-4:20	Interaction with audience through Questions & Answers to be coordinated by Dr G L Jadhav.
6.	4:20	Dr G L Jadhav will call Dr Halim Ahamad for Vote of thanks. Dr Halim will declare that the programme is over

A one-day National Seminar, conducted online, delved into the profound topic of "S N Bose Life & Work," organized by the Indian Association of Physics Teachers Sub Regional Council (SRC) of Maharashtra (Vidarbha) SRC-08 E in collaboration with Shri Shivaji Education Society Amravati's SCIENCE COLLEGE, Congress Nagar, Nagpur on January 27, 2024. Distinguished speakers included (i) Hon'ble Prof. P. K. Ahluwalia, President IAPT, former Professor at Himachal Pradesh University, (ii) Guest of Honor - Prof. Mahendra Dhore, Principal - Shri Shivaji Education Society Amravati's SCIENCE COLLEGE Nagpur, (iii) Prof. Sreerup Raychaudhuri, a renowned Professor of Physics and Dean (Administration) at TIFR Mumbai, (iv) Dr. Rajinder Moudgil, Professor of Condensed Matter Physics from Kurukshetra University, and (v) IAPT President for RC Maharashtra Prof. R. M. Shewale, Ex-Professor of Physics at Dhule.

The establishment of the Sub Regional Council for VIDARBHA, SRC-08E, was approved during the meeting of the Central EC of IAPT on December 10, 2023, following discussions at the 37th National Convention of IAPT in Jaipur from October 8-10, 2023. Dr. R. M. Shewale highlighted the significance of SRC-08E for Vidarbha, Maharashtra.

Prof. P. K. Ahluwalia announced the office bearers of SUB-RC-08 E (Vidarbha), Maharashtra, under the presidentship of Dr. Shyamkant Anwane, Professor & Head of the Department of Physics at Science College Nagpur and congratulated all the newly installed office bearers. Principal Dhore, as the Guest of Honor, commended the efforts of Prof. P K Ahluwalia and congratulated the newly appointed office bearers.

During his introductory remarks, Prof. Shyamkant Anwane highlighted that the late Prof. Khandelwal, the Founder President, established this association four decades ago, and the current program is a manifestation of his vision. Prof. Sreerup Raychaudhuri, the guest speaker, delivered an engaging talk on "The Life and Work of Satyendra Nath Bose," shedding light on Bose's tireless contributions.

Dr. Rajinder Moudgil, a Professor at Kurukshetra University and a distinguished researcher in theoretical condensed matter Physics, consented to deliver a talk on "Bose-Einstein Condensation: Predictions and Realization." Dr. Pranav Chandra Deshmukh, Ex-Professor of Physics IIT-Trichy, urged IAPT to write to the IUPAP (International Union of Pure and Applied Physics) to re-designate 'h' as the PEB (Planck-Einstein-Bose) constant, a proposal systematically organized by Prof. Sreerup Raychaudhuri.

Prof. P K Ahluwalia, President IAPT & ex-Professor at Himachal Pradesh University, delivered a comprehensive talk on "Respected Master: Albert Einstein – A Life from Physics," exploring various facets of Einstein's life and contributions to physics.

A quiz, prepared in collaboration with Dr. V. Renganayaki & Dr. Uthra Dorairajan from Regional Council of Tamil Nadu & Pondicherry RC-13, marked the end of the seminar.

Certificates with quiz scores and participation certificates for the National Seminar on Life and Work of S N Bose were issued to the participants in online mode.

Prof. Shyamkant Anwane expressed gratitude towards the dignitaries, and Dr. Halim Ahamad, Secretary, SUB-RC-08E, delivered the vote of thanks. Dr. Gajanan Jadhav, Treasurer of SUB-RC-08E, skillfully anchored the seminar, with participants, students, faculties, and researchers joining from various parts of India.

Action Taken Report

The one-day National Seminar focused on the life and work of the eminent physicist Satyendra Nath Bose. The event aimed to honor his contributions to the field of physics and inspire participants through discussions led by distinguished speakers.

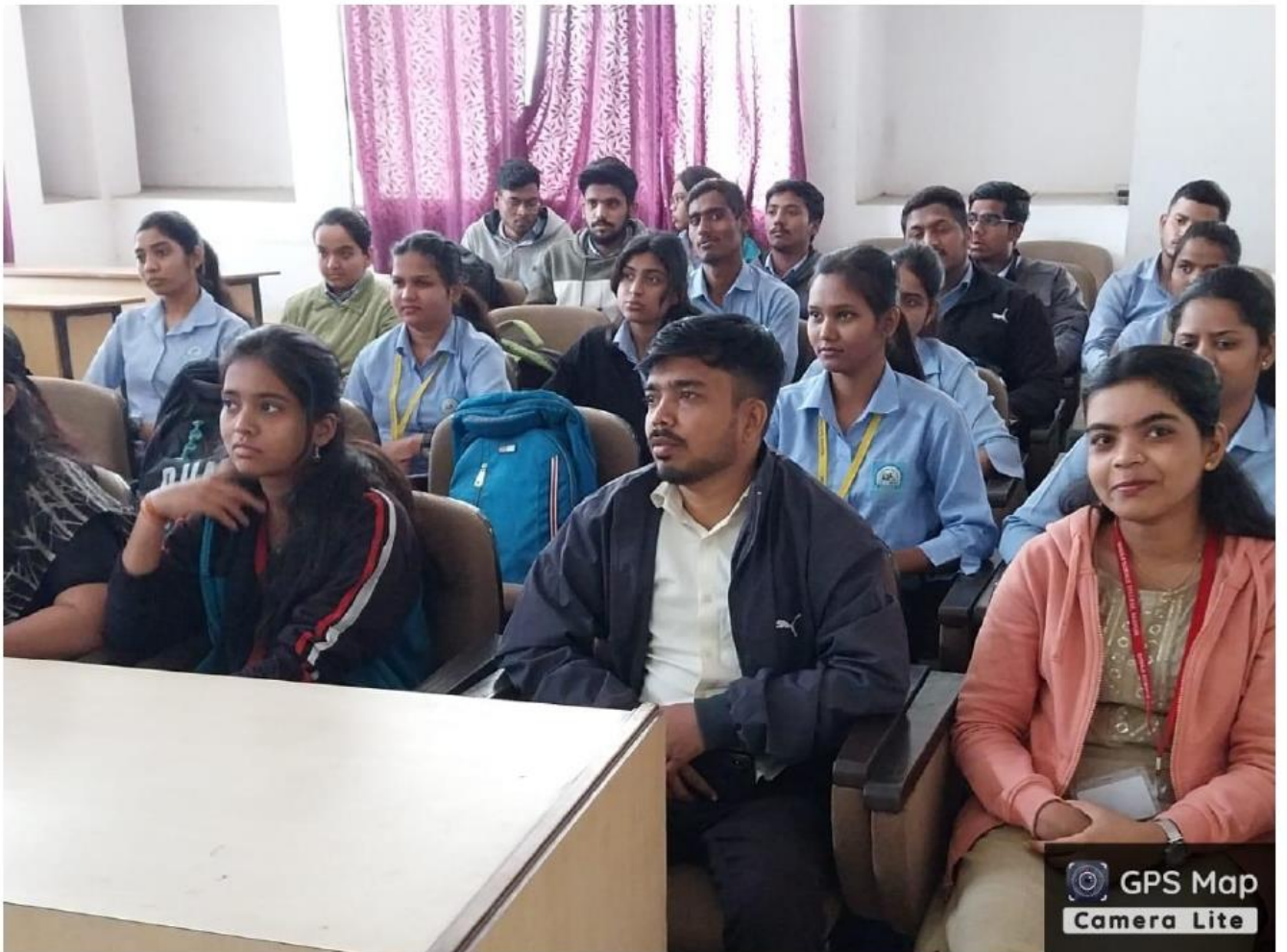
The one-day National Seminar on "S N Bose Life & Work" was a significant event that celebrated the life and contributions of Satyendra Nath Bose. The seminar, organized collaboratively by IAPT SRC-08E and Shri Shivaji Education Society Amravati's Science College, provided an enriching experience for all participants. The establishment of the Sub Regional Council for Vidarbha and the announcement of its office bearers marked a milestone for the region's academic community. The event was a resounding success, reflecting the dedication and collaborative efforts of all involved.

The screenshot displays a Zoom meeting interface. At the top, a row of participant thumbnails is visible, including Dr. S.W. Amrane, Dr. R.M. Shewale, Amisha Bilkar, Stuti Karotiya, Rakha Ghopade, and Dr. Gajanan Jadhav. The main window shows a presentation titled "GRAVITATIONAL WAVES: TIMELINE TO DISCOVERY". The timeline includes the following key events:

- 1916**: Albert Einstein first proposes the existence of gravitational waves as part of his general theory of relativity. Many researchers doubt that they exist at all, believing them to be a mathematical quirk.
- 1957**: Physicists Felix Pirani, Hermann Bondi, and Richard Feynman predict that gravitational waves might be detected by a "silly bead argument". The idea being that if a gravitational wave passed through a stick with a bead on it, it would cause the bead to move back and forth and heat up both the bead and stick with the friction generated.
- 1962**: Russian scientists MS Gershtenshtein and VI Pustovoy published a paper proposing "interferometers" as a way to detect gravitational waves.
- 1967**: Rainer Weiss (one of LIGO's co-founders) proposes a method that would use laser beams to measure the stretching and squashing of space caused by a passing gravitational wave. They were working independently of MS Gershtenshtein and VI Pustovoy, who proposed something similar in 1962.
- 1969**: Joseph Weber claims to have detected gravitational waves using a device called a resonant bar detector, but no one can replicate his results.
- 1974**: Rainer Weiss meets physicist Kip Thorne and colleagues. Thorne that a laser-based instrument would give them the best chance of finding gravitational waves. They start working on the project that would become LIGO.
- 1978**: Russell Hulse and Joseph Taylor provide the first experimental evidence for the existence of gravitational waves by observing two neutron stars orbiting each other (a binary system).
- 1984**: Kip Thorne, Ronald Drever, and Rainer Weiss found the LIGO Laser Interferometer Gravitational-wave Observatory Project.

At the bottom right, a "Participants (87)" list is visible, showing names like Dr. S.W. Amrane, Rakha Ghopade, HP (Co-host), Dr. Gajanan Jadhav, Achal, Ansharya Mandavde, Akasha Sangle, Amisha Bilkar, and BHUPENDRA KUMBHARE. A chat window on the right shows messages from Dr. Prakash Durgam and others, including a note about a feedback form and a recording link.





Congress Nagar, Dhantoli, Nagpur, Maharashtra 440012, India

Latitude

21.12824541°

Local 02:24:39 pm

GMT 08:54:39 am

Longitude

79.08212068°

Altitude 310 meters

Saturday, 27.01.2024



GPS Map
Camera Lite

Congress Nagar, Dhantoli, Nagpur, Maharashtra 440012, India

Latitude
21.12823189°

Local 02:21:31 pm
GMT 08:51:31 am

Longitude
79.08196752°

Altitude 310 meters
Saturday, 27.01.2024



GPS Map
Camera Lite

Congress Nagar, Dhantoli, Nagpur, Maharashtra 440012, India

Latitude
21.12818413°

Local 02:17:16 PM
GMT 08:47:16 AM

Longitude
79.08199116°

Altitude 310 meters
Saturday, 27.01.2024



Congress Nagar, Dhantoli, Nagpur, Maharashtra 440012, India

Latitude
18.12817514°

Longitude
79.08192539°

Local Time: 02:16:28 PM
GMT: 08:46:28 AM

Altitude: 310 meters
Saturday, 27.01.2024

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

PHYSICS SOCIETY 2023-24

One Day National Seminar on
Life & Work of S. N. Bose

Date : 27th January 2024

Time : 2 : 00 pm onwards

Sr. No.	Name	Year	Group	Signature
1	Anushka Palanduskar	2 nd IV sem	PCG	Anushka A.
2	Kohitij Gupta	2 nd IV sem	PCG	Kohitij
3	Yangi Papere	III rd VI sem	PCM	Yangi
4	Poonav Lakhe	III rd year	PCM	Poonav
5	Shikvika Pitale	III rd year	PCM	Shikvika
6	Devesh Patle	III rd year	PCG	Devesh
7	Gaurav M. Parshurambhar	III rd year	PCG	Gaurav
8	Joy Panokal	I st year	M.SC	Joy
9	Nakul Deogara	I st year	M.SC	Nakul
10	Sakshi Ukey. (Msc)	MSc I st year	M.Sc.	Sakshi
11	Riya Faldar	MSc II year	M.Sc	Riya
12	Rahul Kharghar	M.Sc II year	-	Rahul
13	Vedant S. Maske	M.Sc II year	-	Vedant
14	Vaishnavi R. Khade	M.Sc II year	M.Sc	Vaish.k
15	Prerna Ambade	MSc II y	M.Sc	Prerna
16	Shraddha Raut	MSc I	Physics	Shraddha
17	Premata I. Uparikar	MSc II y	Physics	Premata
18	Samiksha H. Bhusari	MSc II yr	Physics (MSc)	Samiksha
19	Sakshi T. Nale	MSc II yr	Physics	Sakshi
20	Schal D. Mohurle	MSc II yr	Physics	Schal

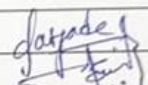
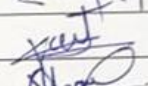




Shri Shivaji Education Society Amravati's
SCIENCE COLLEGE
Congress Nagar, Nagpur

PHYSICS SOCIETY 2023-24

One Day National Seminar on
Life & Work of S. N. Bose

Date : 27th January 2024

Time : 2 : 00 pm onwards

Sr. No.	Name	Year	Group	Signature
21	Ms. Chanda P. Jatgade			
22	Mr. Saavnir S. Belkhude			
23	Miss. Kunchan B. Jivnapurkar.			
24	Mr. Yash Shripakash Chauke	MSc II	Physics	
25	Dr. S. K. Raynal	Asst. Professor	-II-	
26	Mr. B. T. Kumbhare	-I-	-I-	
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**Shri Shivaji Education Society Amaravati's
Science College, Congress Nagar, Nagpur
Department of Physics**

Online National Seminar

27th January 2024

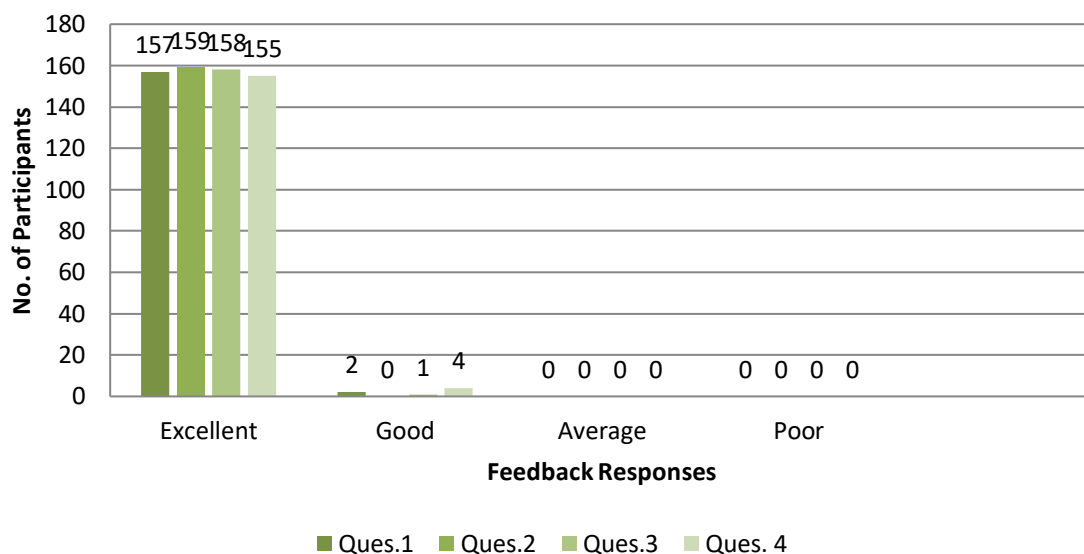
Name of Teacher : Dr. S. W. Anwane

Feedback Form

Name of Student : _____

- 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

Online National Seminar



Dr A A Halder

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

Prof. M. P. Dhore

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

