

Indian Association of Physics Teachers

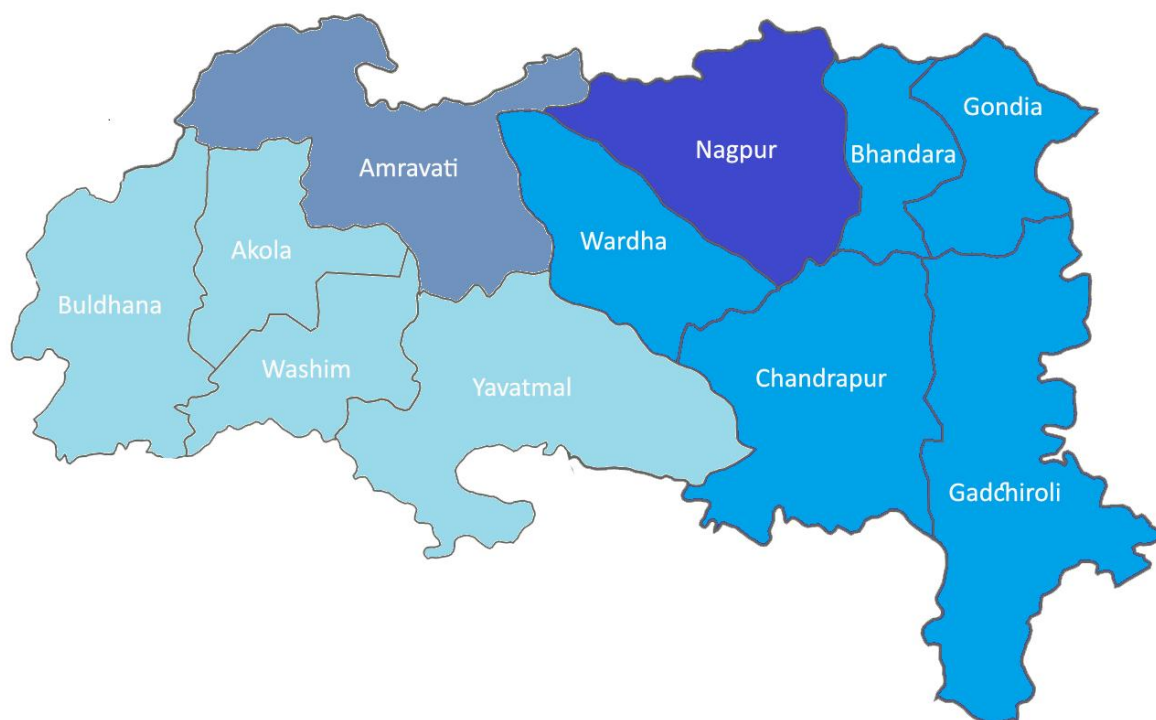
Sub-Regional Council (Vidarbha)

Sub-RC 08E



ANNUAL REPORT

2023-24



Under the auspices of the Regional Council of Maharashtra State RC-08 a sub-regional council for Vidarbha SRC-08 E was formulated following the decision in the EC meeting held online on December 10, 2023. Following ad-hoc Executive Council for Sub RC-08 E (Vidarbha) was appointed as follows vide a e-mail dated 14th Dec 2023:

1. President: Prof Shyamkant Anwane
2. Vice-President: Dr Govind Lakhotiya
3. Secretary: Dr Halim Ahamad
4. Treasurer: Dr Gajanan Jadhav
5. Executive Member: Dr AbhaKhandelwal
6. Executive Member: Prof Ajay Lad
7. Executive Member: Dr Pankaj Nagpure
8. Executive Member: Dr Ashwinikumar Bajpeyee
9. Executive Member: Dr Amol Nande
10. Executive Member: Dr Shashank Deshpande
11. Executive Member: Lt. Dr Prashant Ambekar

The first meeting of the EC for SRC-08 E was conducted on 19/12/2023 at 2:00 pm in online mode.


The second meeting was held on 22-12-2023 at 6:30 pm in online mode presided by national president of IAPT Prof P K Ahluwalia. In addition to the ad-hoc EC members of SRC-08 E the senior IAPT members participated include Dr. Mrs. Rekha Ghorpade, Prof Raghunath Shewale, Dr. Sudam B Mane, Dr. Bhole K G, Dr. Shantinath Patil and Dr. Rajesh K Nimat.

The SRC 08 E conducted the following events and the detailed report of the same follows.

- (i) One Day National Seminar on LIFE & WORK OF S N BOSE on 27/01/2024
- (ii) Webinar for School Students on "Renaissance Man of Indian Science: CV Raman" by Prof. P.K. Ahluwalia on 27/02/2024
- (iii) "Inter-Collegiate University-Level Seminar Competition" for UG Students at J. D. Patil Sangludkar Mahavidyalaya, Daryapur on 16-03-2024
- (iv) National Photo Essay Competition in Physics by Bajaj College of Science in collaboration in March 2023 and Prize distribution on 24/03/2024






S W Anwane
President, SRC-08 E





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


ONLINE


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



Detailed Report:

One DAY National Seminar on "Life & Work of S N Bose" by IAPT SRC-08 E

The inaugural event of the **IAPT Sub-Regional Council 08E** commenced with an online **One Day National Seminar** on "*Life & Work of S N Bose*" on **January 27th, 2024**. The event has special significance due to its twofold coincidence first: birth anniversary of Prof. Satyendra Nath Bose – Fellow of Royal Society (1st January 1894 – 4th February 1974) who was an Indian mathematician and physicist specializing in theoretical physics, best known for his work on quantum mechanics developing the foundation for Bose–Einstein statistics and second: unveiling the Sub Regional Council of Maharashtra for VIDRBHA 08E.

The Program was started on time on Zoom platform facilitated by IAPT. The master of ceremony (MoC) of the program, Dr. Gajanan Jadhav formally welcomed dignitaries and the members joined and invited Professor R. M. Shewale President of RC of Maharashtra to introduce the significance of sub-regional council of IAPT for Vidarbha region (RC-08E).

Prof. Raghunath Shewale:

He expressed his happiness for providing the opportunity to explain the purpose and history behind the formation of sub-regional council of IAPT for Vidarbha region of Maharashtra 08E. He told that it was an outcome of the President honourable Professor P K Ahluwalia's vision since last one year. He was in constant touch with few life members of IAPT particularly Dr. Rekha Gorpade, General Secretary of IAPT, Dr. Abha Khandelwal, & Prof. Ajay Lad, Prof. S W Anwane, Dr. Govinda Lakhotiya, Prof. Sudam Mane, Prof Dhore from Shivaji Science College and with him also.

He further explained that if decentralization of the organization is done then while conducting or organizing activities more people can be involved from their region and do their activities. The topic of their interests in the region gets the priority. The formation of new sub regional council SRC-08 E was also discussed in EC meeting of IAPT at Jaipur Convention held last year in October 2023. The permission was pending as the proposal and the Request Form for form new SRC was not in desired format. Keeping this in mind and as per our IAPT constitution demands in last quarter of 2023 it was decided that let us come together and get at least all the details of about 100 life members of IAPT of from Vidarbha region of Maharashtra. The process was started by the above members which I mentioned earlier the list of Life members along with an ad-hoc body for IAPT SRC-08 E, a request letter was sent through email to Central EC to give the permission for new SRC 08E for Vidarbha region after a meeting of central of IAPT on December 10, 2023 The Proposal was then approved

and the permission was granted to start working with ad-hoc body till December 2024. From January 2025 officially after the election new EC for SRC-08 E will be formed. Till then with the ad-hoc body the present SRC-08 E will continue to work. He then requested honourable President of IAPT Prof. P K Ahluwalia to announce the office bearers of ad-hoc body of SRC Vidarbha region of Maharashtra SRC-08 E.

Prof. P.K. Ahluwalia President of IAPT: Prof. P K Ahluwalia expressed his happiness that sub regional council of Vidarbha region SRC-08 E has been formed. He congratulated the new Sub RC office bearers and also thanked the RC 08 to take this initiative to decentralize the activities of RC-08 Maharashtra. He told that there was a call given in one of the editorials of IAPT bulletin that if we want to really reach out to the stakeholders particularly students it is very much desired that we must decentralize ourselves and a network of sub RCS can be formed in a state.

He said he was happy to note that Maharashtra RC-08 has got the best network of sub RC in Indian Association of Physics Teachers and as a result of that what he finds that every day in one corner or the other of Maharashtra there is a program under the banner of IAPT which goes on. Further he was much happy to tell all the participants that IAPT also launched another program and that is to create in different institutions the student chapters of IAPT and he believe that once this will happen there will be more dynamism in the working of Indian Association of Physics Teachers. He then congratulated the members of new SRC and formally announced the names of the members of SRC-08 E one by one; (1) Prof. S W Anwane, Professor and Head Department of Physics Shri Shivaji Science College Nagpur is the President, (2) Dr Govinda Lakhotiya, Department of physics Bajaj College of Science is the Vice President, (3) Dr. Halim Ahamad Assistant Professor and Head Department of Physics SFS College Nagpur is the Secretary and (4) Dr Gajanan Jadhav Assistant Professor

Department of Physics Shri Shivaji Science College Nagpur is the Treasurer who is also the master of the ceremony of this program. Dr Abha Sunil Khandelwal is the Executive Committee Member and she has really taken a lot of interest in the formation of this Sub RC. He told that Dr Abha Khandelwal a basically a Computer Scientist but has lot of interest in Physics and he is sure that her presence in this SRC will add some more flavour to the activities which are on the interface of Computer Science and Physics. Dr Ajay Lad he is Professor and Head Department of Physics Amolakchand Mahavidyalaya Yavatmal, Dr. Pankaj Nagpure Associate Professor, Department of Physics Shri Shivaji Science College Amravati. He mentioned that Dr Pankaj Nagpure is also a recipient of the Best Teacher Award of the Indian Association of Physics Teachers, Dr. Ashwinikumar Bajpeyee, Head of Research Center in Physics, former Head Department of Physics Smt Narasama ACS College Kiran Nagar Amravati, Dr Amol Nande Assistant Professor, Department of Physics Gurunanak College of Science Ballarpur, Shashank Deshpande Department of Physics Junior College Hislop College Nagpur and Dr Prashant Ambekar Associate Professor and Head Department of Physics MP Deo Memorial Dharampeth Science College Nagpur. He once again congratulated the members and expressed happiness that this SRC 08E has started on a nice note to showcase the phase shift of India not only to the Physics community but beyond also.

After this the MC Dr. Jadhav introduced the President of newly installed SRC 08E, Dr. S W Anwane and invited him for the introductory remarks.

Prof. Dr. SW Anwane:

Dr. Anwane remembered the great maratha warrior Chhatrapati Shivaji Maharaj and paid tributes to the founder president of IAPT Professor D P Khandelwal. He told that Professor Khandelwal established this Teachers Association of Physics Teachers four decades ago and

we are into the 40th year of its existence and this very program of the day is an outcome of Professor Khandelwal's vision. He was very happy to mention that IAPT stands as a unique example in our country is an association having a great network of Physics teachers in the Country. He also paid humble homage to Dr Punjabrao Deshmukh who was the First Agricultural Minister of Independent India and founder of his parent society that is Shri Shivaji Education Society Amravati He acknowledged the presence of Prof. P K Ahluwalia, National President of IAPT, a distinguished Professor of Physics committed to students and the subject, Professor **Sreerup Raychaudhuri** a versatile Professor of Physics working with the National Institute of repute, TIFR, Professor Rajinder Moudgil, Professor at Kurukshetra University, a doctoral research student of Prof. P. K. Ahluwalia, Principal of Shivaji Science college, Prof. Mahindra Dhore, a dynamic administrator and man of Computer Science and also Professor Raghunath Shewale, President of Regional Council of Maharashtra. He further said that he is overwhelmed with the responsibility bestowed on his team and him and the trust that National president of IAPT, Prof. P.K. Ahluwalia and Professor Shewale Sir has shown. He assured on behalf of his team that his team shall put best efforts they shall put their best to reach out to students in the best possible way and with the new designation of IAPT feel empowerment in making such programs more effectively not only in getting eminent resource persons but also reaching students through the network of IAPT composed of like-minded teachers and students looking forward with positive mind and with a lot of hopes.

After this MoC Dr. Jadhav called M.Sc. Student Ms. Sakshi Nale to introduce Dr Mahendra Dhore, Principal of Shivaji Science College, Nagpur and invited him for a address the participants.

Dr Mahendra Dhore :

Dr Mahendra Dhore paid homage to the founder of Shri Shivaji Education Society Dr Punjabrao Deshmukh the First Union Agriculture Minister. He remembered the great saint Rashrasant Tukdoji Maharaj after whom Nagpur University is named. He acknowledged the presence of guest speakers for one day National seminar on 'Life and work of S N Bose' Prof. Sreerup Raychaudhuri, Prof. Rajinder Mudgil, Prof. P K Ahluwalia, Dr Mrs Abha Khandelwal, Dr Shewale and organizer Dr Professor Shyamkant Anwane from Shivaji Science College Nagpur and all the office bearers of this IAPT.

He congratulated to Prof. P.K. Ahluwalia being the mentor of IAPT expressed his gratitude & for allowing him to be a part of this IAPT activity . He also thanked Dr. Mrs. Khandelwal who has taken keen interest in associating Shivaji Science College with the IAPT. He also thanked Prof. P K Ahluwalia who has extended his cooperation to the Department of physics of this college by allowing the formation of this Sub Regional Council of Maharashtra Vidarbha SRC-08 E and accordingly the formalities have been done and declaring the formation of the sub Regional Council. He congratulated all the office bearers of the newly formed Sub Regional Council SRC-08 E of Maharashtra including President, Vice-President, Secretary, Treasurer and all the executive members.

With this MoC Dr. Jadhav called Dr. Ms. Sugandha Khangar to introduce the first speaker of Seminar Prof. Sreerup Raychaudhuri. Dr. Sugandha introduced resource person briefly. She told Prof. Sreerup Raychaudhuri is a Professor of Theoretical Physics at TIFR Mumbai he specializes in in the study of Elementary Particles and their interactions especially the theories of electroweak interactions and unification of forces. He studied Physics at Presidency College Kolkata and University of Kolkata and was a post doc fellow at TIFR and CNI. He taught at IIT Kanpur for some years before joining TIFR apart from his research and teaching work he is interested in science popularization and in the history of science

especially in the context of development of modern Indian science requested resource person to deliver his talk.

Prof. Sreerup Raychaudhuri:

Prof Sreerup Raychaudhuri from TIFR for delivered an excellent lecture on “The life and work of S. N. Bose”. His insights and expertise provided audience with a comprehensive understanding of the legacy left behind by this remarkable Physicist. He commenced his talk by delving into the fundamental principles of thermodynamics, beginning with Kirchoff's law. Systematically, he unfolded the historical progression of quantum statistics, intricately developed by the eminent S N Bose. His eloquent explanations transformed the scientific discourse into a captivating narrative, akin to a live cinematic experience. The audience was seamlessly immersed in a fascinating journey through the life and contributions of SN Bose, making for a truly remarkable and engaging experience.

Professor Rajender Moudgil:

After this the second talk was delivered by Dr. Rajender Moudgil, Professor, Department of Physics Kurukshetra University, Kurukshetra. He delivered a lecture on the subject 'Bose-Einstein Statistics: Prediction and Realization.' Prior to commencing his presentation, Professor Moudgil was introduced by B.Sc. Student Ms. Anuska Paladurkar. The professor initiated his discourse by elucidating the foundational concepts of cavity resonators and went on to explain how Professor S N Bose laid the groundwork for Bose-Einstein statistics. Proficiently, he developed the theoretical framework of Bose-Einstein Condensation in a clear and comprehensible manner. Throughout his talk, Prof. Moudgil conveyed to the participants how S N Bose's predictions played a pivotal role in establishing the foundations of quantum mechanics even before the formalization of the field. He skillfully discussed the

complex theory as well as experimental physics of Bose-Einstein Condensation, ensuring that even undergraduate students could grasp the intricacies of the subject.

Actually RC had planned three lectures, however both lectures were taken a little more time and the President Prof. Ahluwalia proposed to reschedule the third lecture on 29th January 2024. Prof. Ahluwalia summed-up the whole talks and requested Prof. P C Deshmukh Ex-Professor of Physics IIT-Trichy to share his thoughts at this occasion.

Prof. P C Deshmukh suggested IAPT to write to IUPAP to rename Planck's constant ' h ' as the PEB (Planck-Einstein-Bose) constant. Further, he also suggested to write a letter to American Physical Society for inclusion of University of Kolkata and University of Dhaka as Physics Heritage Sites as they had asked proposals for renaming of World's Historical Places as Physics Historical sites.

Professor P.K. Ahluwalia

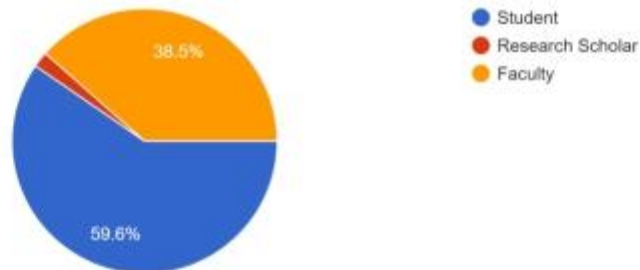
On the next working day, that is, Monday the January 29th, 2024, which was an extension of the one-day National Seminar on the Life and Work of SN Bose held on January 27, 2024, Professor P.K. Ahluwalia, the President of IAPT, delivered an exceptionally insightful and inspiring online talk titled "Respected Master: Albert Einstein – A Life in Physics." Prof. P K Ahluwalia, with his eloquence and profound knowledge, managed to captivate the audience. His remarkable ability to articulate complex concepts in an accessible manner truly showcased his passion for Physics and commitment to instilling a love for the subject. The talk not only illuminated Albert Einstein's profound contributions to physics but also served as a wellspring of inspiration for all participants. Prof. Ahluwalia seamlessly bridged Einstein's theories to real-world applications and contemporary implications. Additionally, his engaging presentation style and the clarity with which he communicated intricate concepts left a lasting impression on everyone in attendance.

Dr. V. Renganayaki and Dr. Uthra Dorairajan from RC Tamilnadu & Pondicherry took efforts in designing an online quiz on the topics covered during this online webinar. The link of the same was circulated just soon after Seminar. Many students attempted the Quiz which was followed by extending the Certificate stating Quiz Score. Moreover, about 105 participants were issued with a Certificate of Participation of the One Day National Seminar against feedback provided. About 59% students and 39% teachers along with 2% research scholars participated in the activity and about more than 80% participants appreciated the activity. Overall, the seminar served as a platform for knowledge dissemination, scholarly discourse, and community engagement, reflecting the commitment of IAPT and its members to advancing physics education and research. The programme came to end following Vote of thanks was delivered by Dr. Halim Ahamad, Secretary of RC 08E.

Participants Feedback Responses

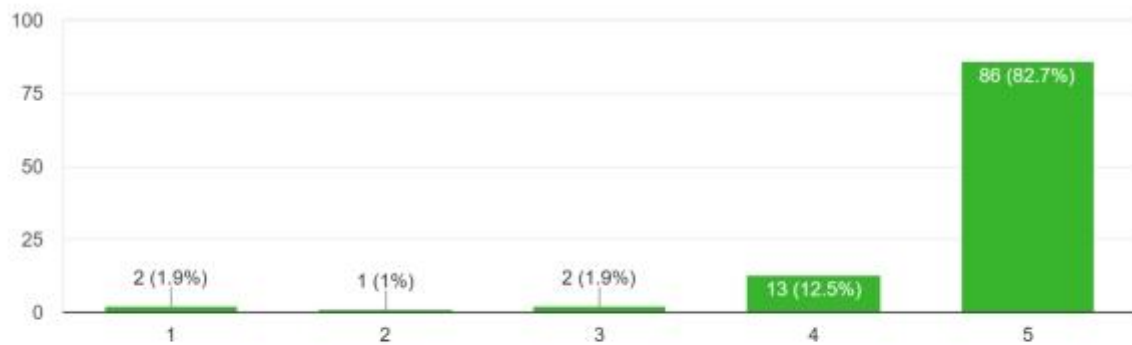
Designation (Student\Research Scholar\Faculty):

104 responses



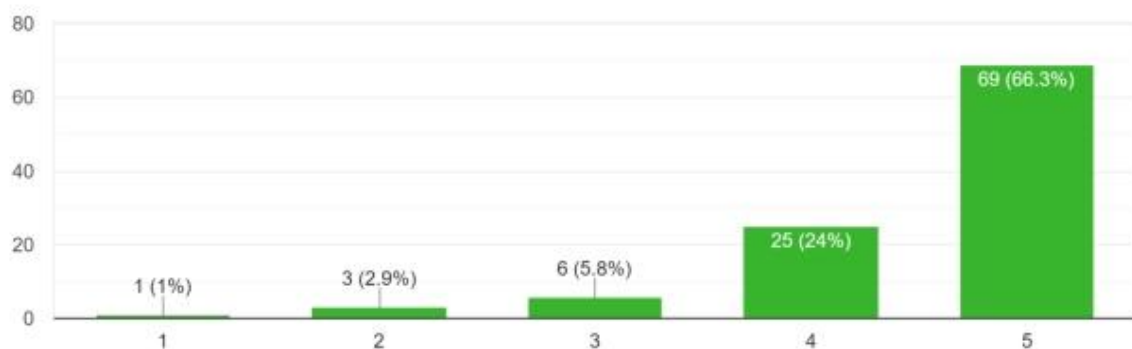
Overall Rating for the One Day National Seminar on "LIFE & WORK OF S.N. BOSE" ? (1- POOR , 5- EXCELLENT)

104 responses



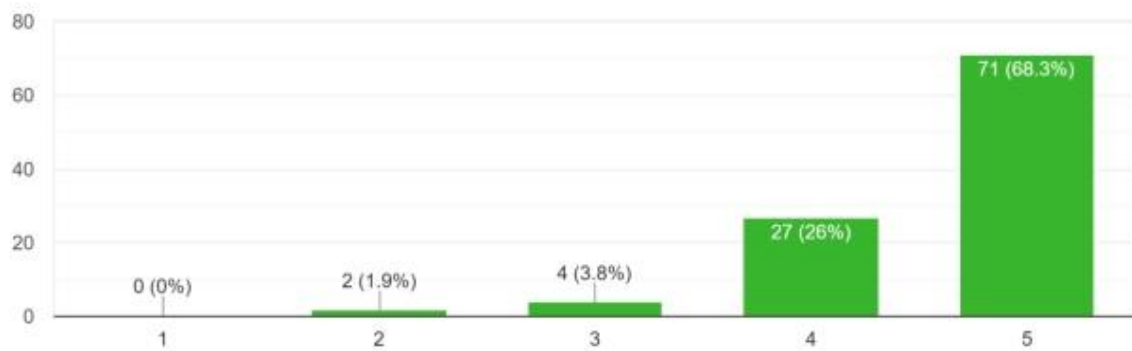
Was the content relevant to your interests?

104 responses



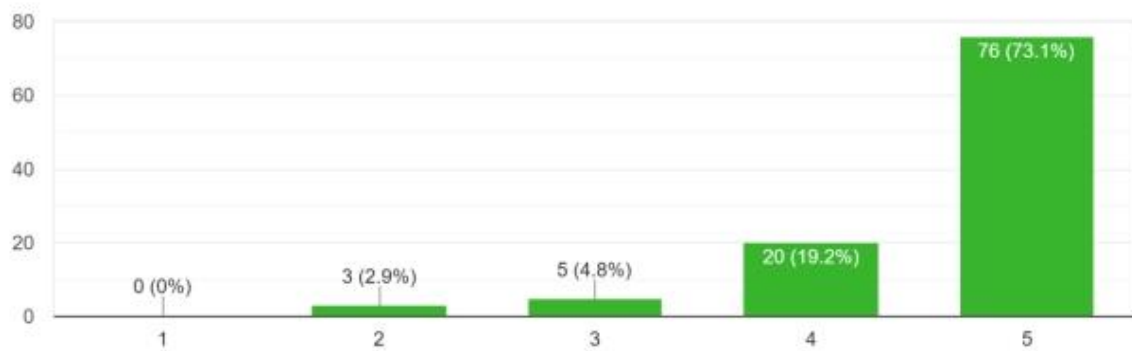
Were the topics covered in-depth and informative? (1- POOR , 5- EXCELLENT)

104 responses



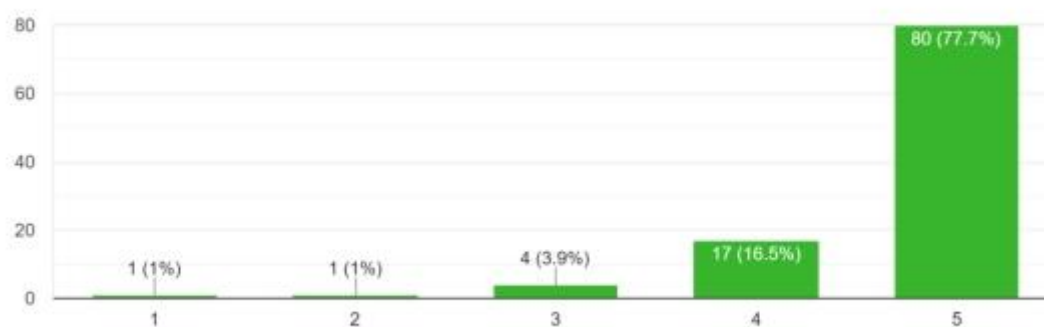
Rate the quality of the speakers. (1- POOR , 5- EXCELLENT)

104 responses



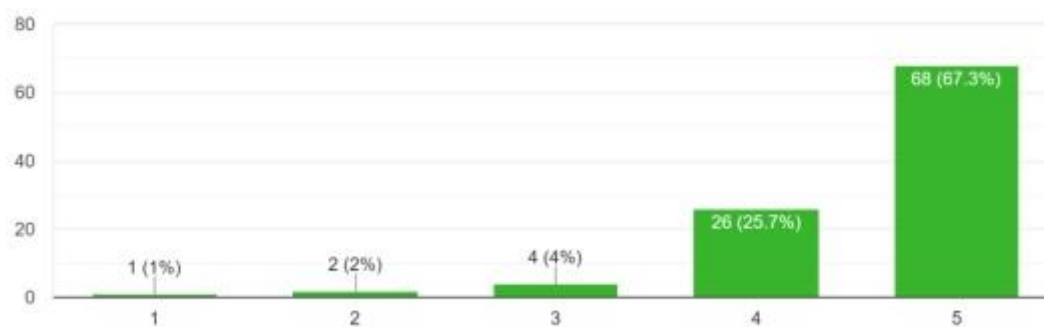
Were the speakers engaging and knowledgeable? (1- POOR , 5- EXCELLENT)

103 responses



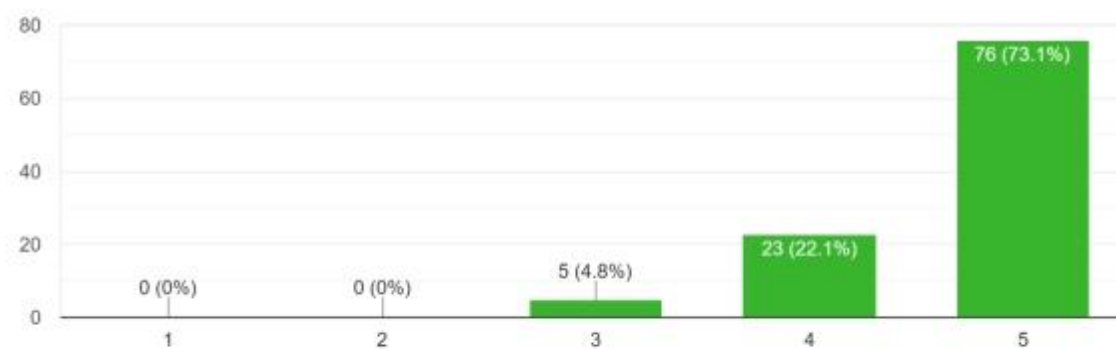
How easy was it to access the online platform?

101 responses



How would you rate overall organization of the ONLINE lecture organized by IAPT and Department of Physics, Shri Shivaji Education Society Amrav...IENCE COLLEGE, Nagpur? (1- POOR , 5- EXCELLENT)

104 responses



A few Comments recorded by Participants:

- Keep it up
- Congratulations to Principal Dr M P Dhore for taking interest in uplifting IAPT SRC08E. Thanks a lot sir.
- Very good seminar
- Conduct more and more seminar and engage the students towards the scientific environment
- We need more webinars in different topics in future sir. Thank you Sir.
- There should be only one session at a time, specially in an online mode. So that we can give justice to the speaker and participants get time to interact. Thanks.
- Really session was so nice
- Conduct more program for our benefit
- These activities should be repeated frequently so that students will get benefit of such a wonderful veteran physicist.
- "RESPECTED AUTHORITIES... WHEN I START SCREEN RECORDING OF SEMINAR... ONLY VIDEO WAS RECORDED NOT THE SOUND.... SO PLEASE TAKE CARE OF SUCH TECHNICAL GLITCH... INNEXT SEMINAR.... THANKS"
- It's was fabulous seminar really impressive
- Would like to attend more of the lecture of such great persons!
- Its Great
- Keep up the good work...
- Keep on organizing such events
- Though it is a maiden event by SRC 08E, organization was excellent.
- Excellent 👍😊
- Pls Organize more such events in future also.
- Lecture based on basic physics is used to conduct. It provides the motivation and interest among students.
- No I don't want to give any suggestion
- Keep up the good work.
- Speaker must be communicating with students as students never feel like bored
- All was well organised

- I must say there should be more involvement of students for such great discussion and talks.
- Nice activity
- Good information
- Nothing to improve everything is great

Abstract Report:

One-Day National Seminar on "***Life & Work of S N Bose***" by IAPT SRC-08 E

As the inaugural event undertaken by IAPT Sub-Regional Council-08 E, an online One-Day National Seminar on "***Life & Work of S N Bose***" was organized on January 27, 2024. The significance of this event was twofold: it coincided with the birth anniversary of Prof. Satyendra Nath Bose, an Indian mathematician and physicist known for his pioneering work in quantum mechanics, and it marked the unveiling of the Sub-Regional Council of Maharashtra for Vidarbha (SRC-08E).

The program commenced promptly on the Zoom platform facilitated by IAPT. Dr. Gajanan Jadhav, the master of ceremony, extended a formal welcome to the dignitaries and participants. Professor R. M. Shewale, President of RC Maharashtra, introduced the significance of the sub-regional council for the Vidarbha region (RC-08E).

Professor Raghunath Shewale elaborated on the formation of the sub-regional council, attributing it to the visionary leadership of Professor P K Ahluwalia. He highlighted the importance of decentralization in organizing activities to engage more stakeholders from the region effectively. The formation of SRC-08E was discussed in the EC meeting of IAPT at Jaipur Convention in October 2023, leading to its approval and subsequent formation.

Professor P.K. Ahluwalia, President of IAPT, expressed his satisfaction with the establishment of SRC-08E and congratulated the new office bearers. He emphasized the need for decentralization to reach out to students effectively, commending Maharashtra RC-08 for its robust network of sub-RCs. He also announced the names of the office bearers of SRC-08E.

Dr. S W Anwane, President of SRC-08E, paid tribute to the founder of IAPT, Professor D P Khandelwal, and underscored the association's unique role in fostering a nationwide network of physics teachers. He expressed gratitude for the trust placed in the new SRC and pledged to work diligently towards its objectives.

Dr. Mahendra Dhore, Principal of Shivaji Science College, Nagpur, acknowledged the contributions of various individuals and organizations towards the formation of SRC-08E. He congratulated the new office bearers and thanked Professor P K Ahluwalia for his support.

Two distinguished speakers, Professor Sreerup Raychaudhuri and Professor Rajender Moudgil, delivered insightful lectures on the life and work of S N Bose and Bose-Einstein statistics, respectively. Their talks provided a comprehensive understanding of Bose's legacy and his contributions to quantum mechanics.

Following the lectures, Professor P C Deshmukh proposed writing to IUPAP to rename Planck's constant as the PEB (Planck-Einstein-Bose) constant. He also suggested nominating the University of Kolkata and the University of Dhaka as Physics Heritage Sites.

On January 29, 2024, Professor P.K. Ahluwalia delivered an engaging online talk titled "Respected Master: Albert Einstein – A Life in Physics." His insightful presentation bridged Einstein's theories to real-world applications, inspiring all participants.

An online quiz was conducted, and certificates were issued to participants. Dr. Halim Ahamad delivered the vote of thanks, concluding the program.

Overall, the seminar was a resounding success, engaging both students and teachers and fostering a deeper appreciation for the contributions of eminent physicists.

List of Participants generated from the online Feedback

1. Mr.Yogesh Sunilrao Kase
2. Dr. PK AHLUWALIA
3. Lt. Dr. Prashant Ambekar
4. Namdeo Jagoji Meshram
5. Dr Abha Khandelwal
6. Mr. Chetan Jaydeorao Ghormade
7. Dr R M Shewale
8. Radhika G Deshmukh
9. Dt V RENGANAYAKI
10. Vishakha Sanjay Misal
11. Dr. Arun Kumar
12. Satish kumar
13. Sanjeev Thakur
14. Ms. Afreen Ansari
15. Ms. Reena Kumari
16. Ms. Meenakshi Sharma
17. Dr. K. Annapoorani
18. Mr. Nikhil Kumar
19. Mr. Sunil Kumar
20. Dr. Rajashree Anwane
21. Miss. Rupali anilrao sawai.
22. Mrs Rekha Ghorpade
23. Dr. Halim Ahamad
24. Mr. Shashikant Vijaykrishna Kale
25. Khushi Raju Kankatwar
26. Megha suresh makde
27. Ms. Sonal tijare
28. Mrs.Sakshi Ramashankar yadav
29. Abhijeet Harish Pardhan
30. Ms . Sakshi Deepaksingh Thakur
31. Ms. Vasuki Dabhane
32. SHWETA SHRIVASTAVA
33. Mr. Shashank S. Deshpande
34. Antakshari Nischal Khillarkar
35. Aakanksha Kamalakar Rajurkar
36. Mr. Tanmay Anandrao Kotangale
37. Ms. Gayatri Rakesh Mishra
38. Ms diksha Santosh mishra
39. Ms. Kaveri Rambhau Bodele
40. MS Swati Vinod Mishra
41. Mrunalini Shriram Mendhe
42. Dr Gajanan Lalsing Jadhav
43. Ms. GAURI FUSE
44. Dr. Sushil Kumar
45. Mr. ISHWAR SINGH
46. Ms. Kanchan Jivnapurkar
47. Ms jayshree prakash yadav
48. Ms.Sakshi Mangesh Raut
49. Miss. TANUSHKA ANAND KADU
50. Ms. Akansha Subhash Sangole
51. Sapna Sharma
52. Ms. Vedanti Pramod Doble
53. Ms. Gayatri vinod kawale
54. Mr Kulkarni Suraj Sunilrao
55. MrTanmay Nagrale
56. Mr. Swapnil S. Belkhude
57. Ms. Chanda Prakash Jatgade
58. Pratham shrivas
59. Mr. Soksham Nishant Dhok
60. Ms. AISHWARYA P MENDWADE
61. Ms. Munesh Chaudhary
62. Miss. Sneha sharma
63. Ms. Premlata Ishwardas Uparikar
64. Ms. Osheen Darshan Arora
65. Shrivatsa pitale
66. Dr Arvind Gopal Kulkarni
67. Mr. Rathod Janardhan Maroti
68. Dr. Shilpa G. Vidhale
69. GHANSHYAM MENARIA

70. Dr. VINOD KUMAR
71. Ms. Nandini Anil Pasi
72. Mrs. Ranita Eknath Aglave
73. Mr. Krunal Gajanan Bhagat
74. Mr. Yash Shriprakash Chaube
75. Ms. Vaishnavi Dinesh Dabare
76. chetana Moreshwar khadse
77. Prof S W Anwane
78. Ms .Stuti Girish Karotiya
79. Arti Subhash Joshi
80. Samiksha Bhusari
81. Dr. Poonam Jain
82. Ms. Lavanya Talnikar
83. Dr.Swati Anoop Fartode
84. Dr. Yogesh Kumar
85. Mrs. Prerna Amit Ambade
86. Mr Paramjeet Singh Lecturer
87. Dr. Pranawa Chakradhar Deshmukh
88. Ms. Vaishnavi Vijay Dhadse
89. Dr. Nimat Rajesh K
90. Ms. Sakshi Omprakash Ukey
91. Dr. D V Nandanwar
92. Ms. Kiranpreet kaur chania
93. Mr. Bhupendra Tikaram Kumbhare
94. Mr Syed Ishtiyah Ahmad
95. Ms. Sakshi T. Nale
96. Manasvi Dilip Dange
97. Mr. Vireshkumar H Thakkar
98. Vaishnavi Ramesh khade
99. Mr. Jay Madhukar Shende
100. Ganesh C. Vandile
101. Ms Riya Faldu
102. Mr.Nishant Dushyant Meshram
103. A B Lad
104. Mr. Ashwinikumar Bajpeyee
105. Amol Nande
106. Shashank Deshpande
107. Govind Lakhotiya
108. Halim Ahamad

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बोस यांच्या जीवनकार्यावर राष्ट्रीय चर्चासत्राचे आयोजन

लोकमत न्यूज नेटवर्क

नागपूर : भारतीय भौतिकशास्त्र शिक्षक संघटना आणि श्री शिवाजी विज्ञान महाविद्यालयाच्या वतीने भौतिकशास्त्रज्ञ सत्येंद्रनाथ बोस यांच्या जयंतीनिमित्त 'एस. एन. बोस यांचे जीवन व कार्य' या विषयावर राष्ट्रीय चर्चासत्राचे आयोजन करण्यात आले होते.

या कार्यक्रमाला भारतीय भौतिकशास्त्र शिक्षक संघटनेचे राष्ट्रीय अध्यक्ष प्रा. पी.के. अहुवालिया हे प्रमुख वक्ते म्हणून उपस्थित होते. यावेळी प्राचार्य डॉ. महेंद्र ढोरे, कुरुक्षेत्र विद्यापीठाचे डॉ. राजेंद्र मोडगिल, महाराष्ट्र राज्य शिक्षक संघटनेचे अध्यक्ष आर. एम. शेवाळे आणि विदर्भ क्षेत्राचे नवनिर्वाचित अध्यक्ष प्रा.

श्यामकांत अनवाने हेदेखील यावेळी उपस्थित होते. यावेळी पी. के. अहलुवालिया यांनी विदर्भाच्या संघटनेची घोषणा केली. प्रा. श्रीरूप रायचौधुरी यांनी 'सत्येंद्र नाथ बोस यांचे जीवन आणि कार्य' या विषयावर व्याख्यान दिले, तर डॉ. मोडगिल यांनी 'बोस-आइन्स्टाइन संक्षेपण : भविष्यवाणी आणि प्राप्ती' या भौतिकशास्त्र विषयावर मार्गदर्शन केले. आयआयटी-त्रिची येथील माजी प्राध्यापक डॉ. प्रणवचंद्र देशमुख यांनीदेखील त्यांचे विचार मांडले. प्रश्नमंजूषा स्पर्धने या चर्चासत्राचा समारोप झाला. डॉ. गजानन जाधव यांनी संचालन केले, तर प्रा. श्यामकांत अनवाने व डॉ. हलीम अहमद यांनी आभार मानले.

IAPT conducts one-day national seminar in online mode

Indian Association of Physics Teachers (IAPT) and Shri Shivaji Science College conducted one-day **national seminar** in online mode on the topic 'SN Bose's Life & Work'. **Prof PK Ahluwalia**, president of IAPT was chief speaker, while the guest of honour was **Prof Mahendra Dhore**, principal of Shivaji Science College. **Prof Sreerup Raychaudhuri** of TIFR Mumbai, **Rajinder Moudgil** of Kurukshetra University, and **Prof RM Shewale** were other speakers. Ahluwalia announced the office-bearers of sub regional council for Vidarbha under the presidentship of **Shyamkant Anwane**, of Science College. A **quiz** marked the end of the seminar. Certificates were issued to the participants in online mode. **Anwane expressed gratitude** to the dignitaries while **Halim Ahamad**, secretary of SRC, proposed a vote of thanks. **Gajanan Jadhav**, treasurer anchored the seminar.



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



ONLINE



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



ONLINE



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





Indian Association of Physics Teachers

One DAY National Seminar on Life & Work of S N Bose

27th January 2024 2:00 pm onwards



Zoom Meeting ID: 859 5199 1380 Passcode: 755511

Satyendra Nath Bose, a Fellow of the Royal Society (1 January 1894 - 4 February 1974), was an eminent Indian mathematician and physicist with a specialization in theoretical physics. He is widely recognized for his ground breaking contributions to quantum mechanics, particularly for laying the foundation of Bose-Einstein statistics. In honor of his birth anniversary, the Sub-Regional Council of Maharashtra for VIDARBHA is organizing a one-day National Seminar on the Life & Work of Bose and Einstein. This online event is scheduled for 27th January 2024 at 2:00pm, serving as a commemoration and an opportunity to delve into the profound contributions of these luminaries.

2:00pm-2:15pm - INAUGURAL Session - The Life and Work of Satyendra Nath Bose

2:15pm-3:15pm - Prof. Sreerup Raychaudhuri, TIFR, Mumbai - The Life and Work of Satyendra Nath Bose

3:15pm-4:15pm - Prof. Rajinder Moudgil, Kurukshetra University - Bose-Einstein Condensation: Prediction and Realization

4:15pm-5:15pm - Prof. P K Ahluwalia, President IAPT & Professor HPU- Respected Master: Albert Einstein - A Life from Physics

QUIZ - An online Quiz on Life and works of Satyendra Nath Bose will be opened at the end of the programme for students as well as faculty members with the support of Dr. V. Renganayaki & Dr. Uthra Dorairajan from Regional Council of Tamil Nadu & Pondicherry RC-13. A participation certificate will be issued.

Organizers :

Dr Shyamkant Anwane *President SRC-08 E*

Dr Govinda Lakhotiya *Vice-President SRC-08 E*

Dr Halim Ahmad *Secretary SRC-08 E*

Dr R M Shewale *President RC-08*

Dr Lata Jadhav *Secretary RC-08*

Mr S J Patil *Treasurer RC-08*

Dr G L Jadhav *Treasurer SRC-08 E*

Dr Mrs S V Khangar - *Physics Society*

Dr. Abha Khandelwal *EC SRC-08 E*

Dr. Ajay Lad *EC SRC-08 E*

Dr. Pankaj Nagpure *EC SRC-08 E*

Dr. A. Bajpeyee *EC SRC-08 E*

Dr. Amol Nande *EC SRC-08 E*

Shashank Deshpande *EC SRC-08 E*

Lt. Dr. Prashant Ambekar *EC SRC-08 E*

‘भारतीय भौतिकशास्त्र शिक्षक संघटना’ (IAPT) आणि शिवाजी विज्ञान महाविद्यालयाच्या वतीने एक दिवसीय राष्ट्रीय चर्चासत्राचे आयोजन!

भारतीय भौतिकशास्त्र शिक्षक संघटना (Indian Association of Physics teachers- SUB-RC-08E) आणि श्री शिवाजी विज्ञान महाविद्यालय काँग्रेस नगर नागपूरच्या वतीने आभासी पटलावर दिनांक 27 जानेवारी 2024 रोजी एक दिवसीय राष्ट्रीय सेमिनारचे आयोजन करण्यात आले होते. भारतीय गणितज्ञ आणि भौतिकशास्त्रज्ञ सत्येंद्रनाथ बोस यांच्या जयंतीनिमित्त "एस. एन. बोस यांचे जीवन व कार्य" या विषयावर एक दिवसीय राष्ट्रीय चर्चासत्राचे आयोजन करण्यात आले होते. या कार्यक्रमाला भारतीय भौतिकशास्त्र शिक्षक संघटनेचे राष्ट्रीय अध्यक्ष प्रा. पी. के. अहुवालिया हे प्रमुख वक्ते म्हणून उपस्थित होते. यावेळी श्री शिवाजी शिक्षण संस्था द्वारा संचालित विज्ञान महाविद्यालय काँग्रेस नगर नागपूरचे प्राचार्य डॉ महेन्द्र ढोरे यांची देखील उपस्थिती होती. कुरुक्षेत्र विद्यापीठाचे भौतिकशास्त्र विषयाचे प्राध्यापक डॉ राजेंद्र मोडगिल, महाराष्ट्र राज्य शिक्षक संघटनेचे अध्यक्ष प्राध्यापक आर. एम. शेवाळे धुळे आणि विदर्भ क्षेत्राचे नवनिर्वाचित अध्यक्ष प्रा. शामकांत अनवाणे हे देखील यावेळी उपस्थित होते.

इंडियन असोसिएशन ऑफ फिजिक्स टीचर्स (IAPT) ची स्थापना 1984 मध्ये (कै.) डॉ. डी. पी. खंडेलवाल यांनी भौतिकशास्त्राच्या काही शिक्षकांच्या सक्रिय पाठिंब्याने, भौतिकशास्त्र अध्यापन आणि भौतिकशास्त्र शिक्षकांची गुणवत्ता सुधारण्याच्या उद्देशाने केली. भौतिकशास्त्र विषयातील देशातील एक प्रमुख संघटनेत याचे रूपांतर झाले असून सुमारे 10000+ आजीव सदस्य देशभरातील सुमारे 1500 संस्थांमध्ये पसरले आहे. ज्यात परदेशातील सुमारे 100 सदस्य आहेत. सदस्यांमध्ये शाळा, महाविद्यालय, विद्यापीठातील शिक्षक, संशोधक, विज्ञान प्रशासक आणि विज्ञान जाणकारांचा समावेश आहे.

यावेळी प्राध्यापक पी. के. अहलुवालिया यांनी विदर्भासाठी भौतिकशास्त्र शिक्षक संघटनेची (IAPT-SUB-RC-08E) घोषणा केली. यावेळी त्यांनी अध्यक्ष, उपाध्यक्ष, सचिव यांच्यासह नवनिर्वाचित सर्व पदाधिकाऱ्यांना शुभेच्छा दिल्या. विदर्भातल्या या नवीन संघटनेच्या माध्यमातून विविध कार्यक्रम तसेच विद्यार्थ्यांकरता विविध उत्कृष्ट उपक्रमांचे आयोजन केले जाईल अशी आशा व्यक्त केली.

यावेळी प्रा. श्रीरूप रायचौधुरी, अतिथी वक्ते, यांनी "सत्येंद्र नाथ बोस यांचे जीवन आणि कार्य" या विषयावर अतिशय महत्वपूर्ण माहितीसह व्याख्यान दिले तर कुरुक्षेत्र विद्यापीठातील प्राध्यापक डॉ. राजेंद्र मोदगिल, यांनी "बोस-आईन्स्टाईन संक्षेपण: भविष्यवाणी आणि प्राप्ती." या भौतिकशास्त्र विषयावर आधारित उत्कृष्ट व्याख्यान दिले. या एक दिवसीय राष्ट्रीय चर्चासत्राच्या समारोप प्रसंगी अभिप्राय देताना डॉ प्रणवचंद्र देशमुख माजी प्राध्यापक भौतिकशास्त्र विभाग आयआयटी त्रिची यांनी यावेळी भारतीय भौतिकशास्त्र शिक्षक संघटनेला विनंती केली की 'h' ला केवळ 'प्लॅन्क कॉन्स्टंट' न संबोधता 'प्लॅन्क आईन्स्टाईन बोस' असे संबोधित केले जावे आणि यासाठी आंतरराष्ट्रीय संस्थेशी भारतीय भौतिकशास्त्र शिक्षण संघटनेने पत्रव्यवहार करून त्यांना तसे कळविण्याची विनंती देखील केली.

RC-13 च्या तामिळनाडू आणि पाँडिचेरी प्रादेशिक परिषदेने डॉ. व्ही. रेंगानायकी आणि डॉ. उथरा दोराईराजन यांच्या सहकार्याने तयार केलेली प्रश्नमंजुषा स्पर्धेने या चर्चासत्राचा समारोप झाला. एस एन बोस यांचे कार्य आणि जीवनावरील राष्ट्रीय सेमिनारसाठी सहभाग प्रमाणपत्रे आणि प्रश्नमंजुषा गुणांसह प्रमाणपत्रे ऑनलाइन पद्धतीने सहभागींना देण्यात आले. प्रा. श्यामकांत अनवाणे (अध्यक्ष SUB-RC-08E) यांनी मान्यवरांचे आभार मानले व डॉ. हलीम अहमद, (सचिव, SUB-RC-08E) यांनी आभार मानले. तर डॉ गजानन जाधव, (कोषाध्यक्ष) यांनी या चर्चासत्राचे सूत्रसंचालन केले.

Important Links:

One DAY National Seminar on "Life & Work of S N Bose" by IAPT SRC-08 E

Day 1: 27th Jan 2024:

Satyendra Nath Bose – Fellow of Royal Society (1 January 1894 – 4 February 1974) was an Indian mathematician and physicist specializing in theoretical physics, best known for his work on quantum mechanics developing the foundation for Bose–Einstein statistics. To commemorate of his birth anniversary and launch the Sub Regional Council of Maharashtra for VIDRBHA, online one day National Seminar of Life & Work of Bose and Einstein on 27th January 2024.

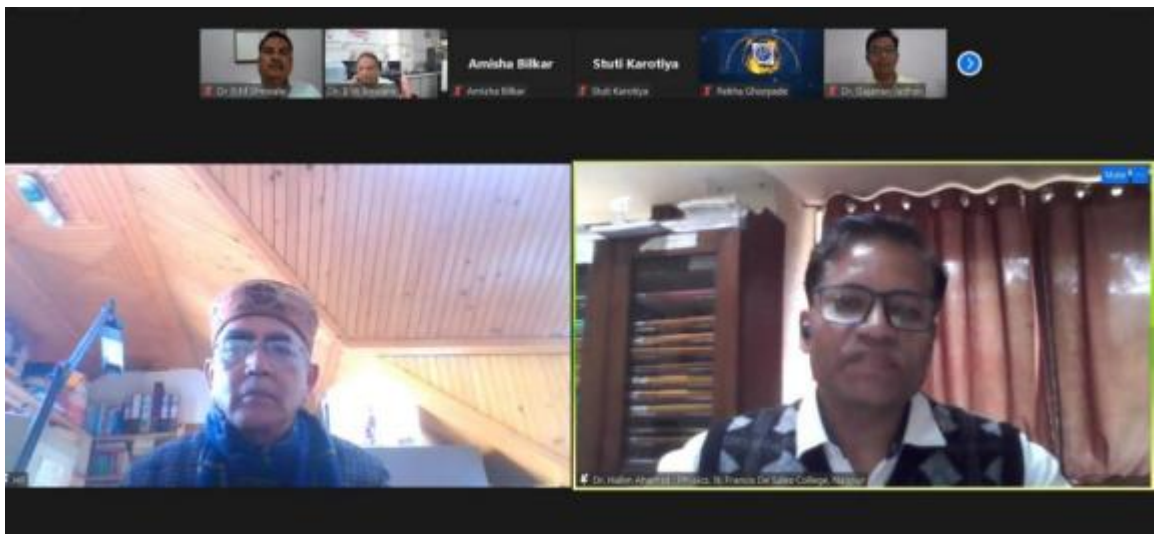
https://youtu.be/SbdHTwbpk50?si=VYI4_WMWwPK20Fu1

Day 2: 29th Jan 2024 - Extended

<https://youtu.be/Fj0Lf0pkFeg?si=MqaJ0kmDwKxtMgm9>

The talk originally scheduled on 27th Jan 2024 was 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." Satyendra Nath Bose – Fellow of Royal Society (1 January 1894 – 4 February 1974) was an Indian mathematician and physicist specializing in theoretical physics, best known for his work on quantum mechanics developing the foundation for Bose–Einstein statistics. To commemorate of his birth anniversary and launch the Sub Regional Council of Maharashtra for VIDRBHA, online one day National Seminar of Life & Work of Bose and Einstein on 27th January 2024

Some stills



GRAVITATIONAL WAVES: TIMELINE TO DISCOVERY

- 1916** ▶ Albert Einstein first proposed 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 Piria, Hermann Bondi, and Richard Feynman predict that gravitational waves might be detected by a "wink-a-link 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 "tick" up both the bead and click with the friction generated.
- 1962** ▶ Russian scientists MI Gershtein and VI Kovalev published a paper proposing interferometry as a way to detect gravitational waves.
- 1967** ▶ Rainer Weiss (one of LIGO's co-founders) proposed 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 MI Gershtein and VI Kovalev, 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 Bill Thorne and consultant Thomas Taylor. 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** ▶ Bill Thorne, Ronald Dreier, and Rainer Weiss found the LIGO Laser Interferometer Gravitational-wave Observatory Project.

Zoom Meeting

Dr. S W Anwar Dr. R M Shewale Anisha Bhat Sudh Kanyiva

Other professional audio: "Audio Settings"

Einstein's Letter to President Roosevelt

ALBERT EINSTEIN
Old Orchard
Roosevelt, New York
August 2nd, 1939

P.S. Neuwirth,
Department of the National Archives,
Washington, D.C.

Sir:

Your recent work by S. Penco and L. Galardi, which has been made available to me by communication, leads me to expect that the report which you may be sending under a new and important aspect of energy to the National Archives. Various sources of the address which has been sent to you for reproduction only, if necessary, will be sent as the part of the communication. I believe therefore that it is up to you to bring to your attention the historical facts and circumstances.

In the course of the last year months it has been made possible through the work of Penco to bring to the attention of the National Archives - that it is the former condition to set up a nuclear chain reaction in a single step of uranium, which may consist of some few large quantities of one particular element made by processes, but it appears almost certain that the same is concerned in the fissionable Uranium.

This new phenomenon could also lead to the construction of bombs, and it is conceivable - though much less certain - that extremely powerful sources of energy may thus be constructed, a single gram of such material, combined with some of the ordinary materials, would release an amount of energy which might well prove to be the source for the construction of a bomb.

-1-

The United States has now very great resources in scientific personnel, there is some good work in hand and the former conditions, which the most important source of energy is being found.

It may be that attention you may wish it necessary to have some preliminary contact established between the administration and the group of physicists working in this direction in America, the principal aim of obtaining this report for the use to be made with this kind of power, who are your institutions and who would be most likely to be sufficient resources. The same might concern the following:

(1) to contact Government Departments, State, War, Navy and the Atomic Energy Commission, and get necessary recommendations for Government action, (being especially advised to the problem of securing a supply of uranium ore for the United States)

(2) to advise on the administrative side which is at present being carried on within the limits of the limits of Governmental organizations, by private funds, if such funds be required, through the Institute with private persons who are willing to make contributions for this cause, and perhaps also by obtaining the co-operation of Government laboratories which have the necessary facilities.

I understand that Germany has recently started the work of uranium from the fissionable Uranium which she has been able to do, and which has been made with various other persons to be produced in the amount that the use of the Atomic Energy Commission of State, War, Navy, is attached to the National Archives Service in Berlin where some of the best work is being done in the world.

Yours very truly,
A. Einstein
(English translation)

Participants (50)

Dr. S W Anwar, Dr. R M Shewale, Anisha Bhat, Sudh Kanyiva, ...

Dr. Prakash Durgajkar to Everyone (public)

Good afternoon to all!

At the end before closing we shall circulate feedback forms that will provide you participation certificate

You're welcome! (public)

Dr. Prakash Durgajkar to Everyone (public)

Who can see your message? (Recording On)

Open message items...

Report of Webinar for School Students organized on 27th Feb 2024

Topic: "Renaissance Man of Indian Science: CV Raman"

Invited Speaker: Prof. P.K. Ahluwalia, National President, IAPT

On the eve of National Science Day 2024, a captivating webinar titled "Renaissance Man of Indian Science: CV Raman" was organized for the students of RS Mundle School in Samarth Nagar, Nagpur. The webinar, held on 27th February 2024, aimed to enlighten young minds about the remarkable contributions of the legendary physicist, Sir C.V. Raman, in the field of science.

The distinguished guest speaker for the event was Prof. PK Ahluwalia, the National President of IAPT (Indian Association of Physics Teachers). Prof. Ahluwalia shared valuable insights into the life and work of CV Raman, highlighting his pioneering research in the field of physics and his significant impact on Indian science.

The webinar was hosted by the IAPT Regional Council, RC08E Vidarbha, with Prof. Shamkant Anwane, President of Vidarbha Sub Regional Council, introducing the esteemed guest speaker. Dr. Govinda Lakhotiya served as the host for the event, ensuring its smooth conduct and facilitating an engaging interaction between Prof. Ahluwalia and the audience.

Approximately 100 enthusiastic students from RS Mundle School actively participated in the webinar, showing great interest and curiosity as they interacted with the resource person and delved into the life and achievements of CV Raman.

The webinar not only celebrated the spirit of National Science Day but also inspired young learners to explore the realms of science and innovation with renewed zeal and passion. It provided a platform for students to learn from the experiences of a renowned scientist and gain a deeper understanding of India's rich scientific heritage.

The successful webinar on "Renaissance Man of Indian Science: CV Raman" exemplified the power of knowledge-sharing and collaboration in nurturing young scientific minds and fostering a culture of curiosity and discovery among students.



Recording of the lecture can be viewed here:

<https://youtu.be/y70Ai3RL9Qc>



Shri Shivaji Education Society Amravati's

J. D. Patil Sangludkar Mahavidyalaya, Daryapur

Department of Physics

Report of "Inter-Collegiate University-Level Seminar Competition" for UG Students

Shri Shivaji Education Society Amravati's
J. D. Patil Sangludkar Mahavidyalaya, Daryapur
NAAC Accredited with "B" Grade (CGPA 2.88)

Department of Physics
&
IQAC Cell
organizes

In collaboration with
Indian Science Congress Association, Amravati Chapter
Indian Association Physics Teachers
Amravati University Physics Teachers Association

Inter-Collegiate University-Level Seminar Competition
for UG Students
- Topic -
Related to Physics Syllabus of Sant Gadge Baba Amravati University, Amravati
Date: 16th March 2024 Saturday
Time: 11.00 AM

First Prize: Rs. 2000/-
Second Prize: Rs. 1500/-
Third Prize: Rs. 1000/-
Consolation Prize: Rs. 500/-

On Occasion of
125th Birth Anniversary of Dr. Panjabrao alias Bhausaheb Deshmukh
शतकोत्तर शौर्य महोत्सव
१२५
जयन्ती वर्ष

Chief Patron -
Shri. Harshvardhan P. Deshmukh
President,
Shri Shivaji Education Society,
Amravati

Principal
Dr. Atul K. Bodkhe
J.D. Patil Sangludkar Mahavidyalaya, Daryapur

Organizing Members
Mr. Manish K. Hole
Associate Professor
IQAC Co-Ordinator
Dept. of English

Coordinator -
Dr. Santosh J. Uke
H.O.D. of Physics &
Assistant Professor

Convenor -
Dr. Sushil D. Charpe
Assistant Professor
Dept. of Physics

Organizing Secretary -
Miss. Rakhi V. Bhagwat
Assistant Professor
Dept. of Physics

Venue:
Seminar Hall,
J.D. Patil Sangludkar Mahavidyalaya, Akot Road, Daryapur, Dist- Amravati

Prize Sponsored by:
Veevel Enterprises, Amravati & Dnyanpath Publication, Amravati

REPORT

On Saturday, **March 16, 2024**, the Department of Physics and the Internal Quality Assurance Cell (IQAC) of the College collaborated to host the "**Inter-Collegiate University-Level Seminar Competition**" for undergraduate students. This event was organized in partnership with the **Indian Science Congress Association, Amravati Chapter (ISCA)**, the **Indian Association of Physics Teachers (IAPT)** (SRC-08 E Vidarbha), and the **Amravati University Physics Teachers' Association (AUPTA)**.

Under the guidance of Hon'ble Principal Dr. Atul K. Bodkhe the seminar competition was inaugurated in the presence of distinguished jury members Dr. Gajanan T. Lamdhade, Professor and Head Department of Physics, Vidya Bharati Mahavidyalaya Amravati, and Dr. Vinod S. Kalyamwar, Associate Professor, Department of Physics, Bharatiya Mahavidyalaya Amravati.

All 26 students enrolled for this competition from different colleges affiliated to the Sant Gadge Baba Amravati University, Amravati. Out of them, 20 students were present for this competition. Seminar topics were focused on B.Sc. Physics syllabus. Jury members meticulously performed their work and finally, four winners were announced in the valedictory cum prize distribution ceremony. The **first Prize** was given to **Miss. Rutuja Rajesh Raut** from Adarsha Science, J.B. Arts, and Birla Commerce Mahavidyalaya **Dhamangaon Rly.**, Dist. Amravati; the **second Prize** was given to **Mr. Pratham Dinesh Wankhade** from Mahatma Fule Arts, Commerce, and Sitaramji Chaudhari Science Mahavidyalaya, **Warud**, Dist. Amravati. Whereas the **third Prize** was given to **Miss Pratiksha Arunrao Dharmale** from J. D. Patil Sangludkar Mahavidyalaya, Daryapur, the **Consolation Prize** was given to **Shravani Anilrao Thakare** from Shri Shivaji Science College, **Amravati**. All prize-winning students received cash prizes, mementos, and certificates, whereas other participants were presented with participation certificates.

For this seminar competition, Dr. Sushil D. Charpe, Assistant Professor, worked as Convenor. In contrast, Dr. S. J. Uke, HOD and Assistant professor worked as

Coordinator, and Miss R.V. Bhagwat, Assistant professor, worked as Organising secretary. 42 students from the Physics department attended the event.



Inauguration of the Seminar Competition and Hon'ble Principal Dr. A.K. Bodkhe Addressing Students



Seminar Delivered by a Participating Student



Participants Student with members of the jury and other guest faculty



Prize-winning Students

अमरावती सिटी 20-03-2024

दिव्य मराठी

दैनिक भास्कर समुहाचे वृत्तपत्र

हितगुज • 'सांगलूदकर'मध्ये आंतरमहाविद्यालयीन सेमिनारमध्ये प्राचार्य डॉ. बोडखेंचे मत

विद्यार्थ्यांनी शिक्षणासोबतच संशोधन, सामाजिक जाणिवेप्रती एकनिष्ठ राहावे

प्रतिनिधी | दर्यापूर

विद्यार्थ्यांनी शिक्षणासोबतच संशोधन आणि सामाजिक जाणिवेप्रती एकनिष्ठ राहून अभ्यास केल्यास भविष्यातील विज्ञान व तंत्रज्ञान क्षेत्रातील संधी प्राप्त होण्याची शक्यता वाढते. त्यामुळेच विद्यार्थ्यांनी वेगवेगळ्या स्पर्धांमध्ये सहभाग घेऊन स्वतःमधील सुप्त गुणांना चालना द्यावी, असे प्रतिपादन प्राचार्य डॉ. अतुल बोडखें यांनी केले.

दर्यापूर शहरातील जे. डी. पाटील सांगलूदकर महाविद्यालयात आयोजित कार्यक्रमाचे अध्यक्ष म्हणून ते बोलत होते. या वेळी डॉ. गजानन लामघाडे, डॉ. विनोद कल्याणकर, डॉ. अनंत बडतकर, डॉ. तुषी तट्टे, विज्ञान विभागप्रमुख प्रा. डॉ. विजय येलकर, आयक्यूएसी समन्वयक प्रा. मनीष होले, स्पर्धेचे संयोजक प्रा. डॉ. सुशील चरपे, भौतिकशास्त्र विभागप्रमुख प्रा. डॉ. संतोष उके आदी उपस्थित होते. डॉ. पंजाबराव देशमुख यांच्या जयंती उत्सवानिमित्त हा कार्यक्रम आयोजित केला होता. महाविद्यालयाचा भौतिकशास्त्र विभाग, इंडियन सायन्स कॉग्रेस असोसिएशन कोलकाता, अमरावती फिजिक्स टीचर असोसिएशन, अहिल इंडियन



यशस्वी विद्यार्थ्यांसोबत प्राचार्य डॉ. अतुल बोडखें, परिक्षक व प्राध्यापक वृंद.

उपक्रमशील महाविद्यालय म्हणून लौकीक

जे. डी. पाटील सांगलूदकर महाविद्यालय हे शहरातील उपक्रमशील महाविद्यालय म्हणून ओळखले जाते. वेगवेगळ्या शैक्षणिक व सामाजिक उपक्रमांत पुढाकार हा या महाविद्यालयाचा लौकीक आहे. शिक्षणासोबतच विद्यार्थ्यांमध्ये इतरही कला रुजाव्या, यासाठी सदर महाविद्यालयाच्या

असोसिएशन ऑफ फिजिक्स टीचर, विवेल एंट्रप्रायझेस, अमरावती आणि ज्ञानपथ प्रकाशन तसेच महाविद्यालयातील आयक्यूएसी विभाग यांच्या संयुक्त विद्यमाने या कार्यक्रमाचे आयोजन करण्यात आले होते.

प्राचार्य व प्राध्यापकांची घडपट असते. त्यामुळेच निरनिराळ्या उपक्रमांसह विद्यार्थ्यांच्या सुप्त गुणांना याच देत त्यांच्यात नेतृत्वगुण विकसित करण्यासाठी हे महाविद्यालय कार्यरत आहे. शिवाजी शिक्षण संस्थेतही या महाविद्यालयाचे नाव अत्यंत आदराने घेतले जाते.

या स्पर्धेत संत गाडगे बाबा अमरावती विद्यापीठाच्या कार्यक्षेत्रातील २३ विद्यार्थ्यांनी भौतिकशास्त्र विषयावरील सेमिनार (पेपर) प्रदर्शित केले. स्पर्धेचे परीक्षण प्रा. डॉ. गजानन लामघाडे, डॉ. विनोद कल्याणकर यांनी

केले. सहभागी सर्व स्पर्धकांनी आपल्या विषयाचे उत्कृष्ट सादरीकरण केले.

स्पर्धेत सहभागी झालेल्यापैकी आदर्श विज्ञान, जे. बी. कला, आणि विरला वाणिज्य महाविद्यालय, धामणगाव देवचे येथील विद्यार्थिनी प्रतुजा राजने प्रथम क्रमांक पटकावला आहे. महात्मा फुले कला वाणिज्य व सीतारामजी चौधरी विज्ञान महाविद्यालय, करंड येथील विद्यार्थी प्रथम वानखडे आणि दर्यापूरच्या जे. डी. पाटील सांगलूदकर महाविद्यालयाची प्रतीक्षा धर्मळने अनुक्रमे द्वितीय व तृतीय क्रमांक मिळवला. शिवाजी विज्ञान महाविद्यालय, अमरावतीची श्रावणी ठाकरेने प्रोत्साहन पुरस्कार मिळवला. स्पर्धेचा आयोजनामागची भूमिका तसेच कार्यशाळेचे महत्त्व प्रा. डॉ. सुशील चरपे यांनी प्रस्ताविकातून विशद केले. सूत्रसंचालन स्पर्धेचे सहआयोजक प्रा. राखी भागवत यांनी केले, तर आभार प्रा. डॉ. संतोष उके यांनी मानले.

स्पर्धेकरिता हेमंत राजत, प्रथमेश कातडे, पूर्वल गावंडे, ज्ञानेश्वरी धर्माळे, अर्पिता गावंडे, अनुश्री नांदुरकर तसेच सर्व शिक्षक व शिक्षकेतर कर्मचारी यांनी परिश्रम घेतले.

Media Coverage

List of Participants Students with their affiliated Institute / College

| Sr. No | Name of Student | Name of College |
|--------|------------------------|---|
| 1. | Agrani Prafull Jumale | Shri Shivaji Arts, Commerce & Science College, Akot |
| 2. | Ambika Eknath Arbat | J. D. Patil Sangludkar Mahavidyalaya, Daryapur |
| 3. | Ankita Digambar Sardar | Dr. R.G. Rathod Arts & Science College Murtizapur |
| 4. | Iqra kazi | Shri Shivaji Science College, Amravati. |
| 5. | Atharva Gawande | Adarsha Science, J.B. Arts, and Birla Commerce |

| | | |
|-----|------------------------------------|--|
| | | Mahavidyalaya Dhamangaon Rly., Dist. Amravati |
| 6. | Diksha Vijayrao Darokar | G.S. Tompe Arts ,Commerce And Science College Chandur Bazar |
| 7. | Maitri Jayant Gawande | Rajarshee Shahu Science College Chandur Railway |
| 8. | Shreya Manoj Jaiswal | Rajarshee Shahu Science College Chandur Railway |
| 9. | Pratham Dinesh Wankhade | Mahatma Fule Arts, Commerce, and Sitaramji Chaudhari Science Mahavidyalaya, Warud. |
| 10. | Pratiksha Arunrao Dharmale | J. D. Patil Sangludkar Mahavidyalaya, Daryapur |
| 11. | Pratiksha Shriram Shegokar | Shri Shivaji Arts, Commerce & Science College, Akot |
| 12. | Prerna Nana Tayade | Shri R L T College of Science Akola |
| 13. | Prerna Sanjay Deshmukh | Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar |
| 14. | Rutuja Rajesh Raut | Adarsha Science, J.B. Arts, and Birla Commerce Mahavidyalaya Dhamangaon Rly., Dist. Amravati |
| 15. | Saniya Anjum Sk. Faheem | G.S. Tompe Arts ,Commerce And Science College Chandur Bazar |
| 16. | Shravani Anilrao Thakare | Shri Shivaji Science College, Amravati. |
| 17. | Shreya Gajanan Sarode | Dr. R.G. Rathod Arts & Science College Murtizapur |
| 18. | Snehal Sunil Bhojane | Shri R L T College of Science Akola |
| 19. | Vansh Chandrashekhar Dandge | Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar |
| 20. | Vaishnavi Anil Sukla | Vidya Bharati Mahavidyalaya Amravati |

Date: 22/03/2024

Place: Daryapur

Convenor



Dr. Sushil D. Charpe
Assistant Professor
Department of Physics
J.D. Patil Sangludkar Mahavidyalaya
Daryapur

Principal
J.D. Patil Sangludkar Mahavidyalaya
Daryapur

Report on the **National Photo Essay Competition in Physics**

Event by SRC08E (Vidarbha)



As a part of celebration of National Science Day, **National Photo Essay Competition in Physics** was organized by **Bajaj College of Science** in collaboration with **Sub Regional Council 08-E (Vidarbha)** region of Indian Association of Physics Teachers (IAPT).

The event served as a platform for undergraduate and postgraduate students from 16 different universities across the country to showcase their creativity, scientific knowledge, and artistic skills through captivating photo essays. Over 50 submissions were received, out of which 37 participants were selected for evaluation based on the competition's rules and regulations.

The competition was aimed to celebrate the fusion of **Art and Science** to provide recognition to talented students in the field of physics. The event witnessed a virtual gathering where the top 10 photo essays were unveiled, and winners were announced on 24th March 2024.

Event was hosted by the coordinator **Dr. Govinda Lakhotiya**. President of SRC 08-E **Dr. S.W. Anwane** introduced the activities by the newly opened SRC. Principal Bajaj College of Science, **Dr. P V Tekade**, the National President of IAPT **Prof. PK Ahluwalia**, and guest of honor **Dr. Raka Dhabade**, among others who were welcomed by Prof. Anwane. The competition evaluators, **Prof. Sunil Pandey**, **Dr. Prakash Durugkar**, and our convener Dr.

Sanjay Bagade, played a crucial role in evaluating the submissions and determining the winners who were introduced by Prof. Anwane. Prof. Sunil Pandey, Dr. Prakash Durugkar also had a dialogue with the participants on their experience in this activity and both upraised students efforts and innovation in meaningful representation.

The photo essays featuring the top 10 participants were introduced to the audience and received high praise. The event also featured a special address by Dr. Raka Dabhade, who shared her insights and experiences from her tenure as a physics faculty member and her involvement in guiding students through the Astro club at the institute for the past 25 years. Dr. Dabhade announced the winners of the photo essay competition as follows:

1. **Ms. Romachita Choudhary** from Pandu College (Guwahati University) secured the **first prize of Rs. 6000** for her captivating work on "**Supernova: The Grand Finale of a Dying Star**".
2. **Ms. Malvika Naik** from Xavier's College, Mumbai, claimed the **second prize of Rs. 4000** for her engaging photo essay on "**Black Hole Soft Hairs**".
3. **Ms. Aastha Shende** from Bajaj Engineering College, Wardha, received the **third prize of Rs. 2000** for her insightful essay on "**NEBULA: Life of a Star**".

The remaining seven participants were each awarded a consolation prize of Rs. 1000.

National President of IAPT, Prof. Ahluwalia, urged the top 10 participants to make full use of the IAPT platform for engaging in a wide array of activities organized at the national level. He extended a warm invitation to the achievers to attend the upcoming National Convention, where they will be honored and presented with their certificates in recognition of their outstanding performance. **Dr. Sanjay Bagade**, Convener of the event proposed the vote of thanks.

Recorded event can be seen on the given QR code:



<https://youtu.be/SUhKN4k5L4g?si=QOlc18wJ1BHak9AP>

Overall, the competition was a resounding success, showcasing the talent and dedication of students in the field of physics. I would like to express my gratitude to all participants, evaluators, guests, and organizers for their contributions to making this event a memorable one.

A brief Introduction of Winners

1 Romanchita Choudhury - Pandu College - AEC Campus, Jalukbari, Guwahati, Assam

Romanchita Choudhury, is in the fourth semester of my Bachelor of Science degree in Physics at Pandu College, Guwahati, Assam. Her academic journey has been marked by a commendable 86% in my 12th-grade examinations from Cotton University, Assam, and an outstanding 95% in my 10th-grade from Little Star School, Assam. As an adept speaker and debater, she has consistently demonstrated her prowess in various collegiate and intercollegiate competitions, earning accolades for my insightful presentations on physics and other topics. She also had the honour to anchor several events in her college and past school. Her passion for Physics stems from a deep-seated curiosity about the universe and the elegance of mathematical equations translating into the laws of nature. She is also captivated by the challenges of unravelling the complexities of the cosmos and contributing to the body of knowledge that can benefit humanity.

2 Malvika Naik - St. Xavier's College (Autonomous), CSMT, Mumbai, Maharashtra

Miss Malvika Naik is 2nd year student of master's in physics with specialization in Astronomy and Astrophysics. Her interest lies in theoretical Astrophysics. She started her work in the field of theoretical Astrophysics within the area of modified gravity theories. Her proposed Master's Thesis is titled: 'Quasinormal Modes in Gravity' which is currently being submitted for the final evaluation and defence viva. Her interests include dark matter, dark energy, black hole thermodynamics, Hawking radiation, gravitational waves and LIGO, quasi-normal modes and cosmic web structure.

3 Astha Shende - Student of Bajaj Institute of Technology, Wardha affiliated to - BATU - Dr Babasaheb Ambedkar Technological University LONERE