

# NATIONAL CONFERENCE ON RECENT ADVANCES IN PHYSICS AND BALLISTICS (RAPAB-2024) &

## 40<sup>th</sup> CONVENTION OF ORISSA PHYSICAL SOCIETY

Organized by

P. G. Department of Physics,

Fakir Mohan University, Vyasa Vihar, Balasore

10<sup>th</sup>-11<sup>th</sup> Feb 2024



NAAC 'A' Grade Accredited



Dear Colleagues,

A National Seminar on "Recent Advances in Physics and Ballistics" & 40<sup>th</sup> Convention of Orissa Physical Society will be organized in the P.G. Department of Physics, Fakir Mohan University, Balasore, Odisha during 10<sup>th</sup>-11<sup>th</sup> February 2024. Many eminent teachers and researchers of Physical Sciences and Ballistics from within and outside the state of Odisha shall be attending this seminar.

### About Fakir Mohan University

The Fakir Mohan University came into existence on 11<sup>th</sup> July 1999 at Vyasa Vihar, Balasore, and has remained as the symbol of glory and prosperity for the people of Balasore and Bhadrak district of Odisha, India. The university Old Campus is 5 Km away and New Campus 15 Km from Balasore City. There are 18 regular postgraduate departments in the University offering M.A. and M.Sc. courses in Specialized subjects as well as Ph.D. programs.

### About Physics Department

The Department of Physics (Erstwhile Department of Applied Physics and Ballistics) is established in the year 2007 as a regular Post Graduate Department under Fakir Mohan University, Balasore, Odisha. This Department offers courses like MSc in Physics with electives in Nuclear and particle Physics, Condensed matter Physics, Electronics, and Ballistics and Ph.D. program in Physics. The uniqueness of the Department is that it is the first and only Post Graduate Department under a general State University, all over the country, providing a course like Ballistics. It focuses on various research areas like High energy Physics, Nuclear Physics, Condensed matter Physics, Gravitation and Cosmology, Radiation Physics, and Ballistics.

### Advisory Committee

- Prof. Ajoy Kumar Ghatak, IIT Delhi
- Prof. Jayaram N. Chengalur, TIFR Mumbai
- Prof. Bhupendra Nath Dev, TCG CREST, Kolkata
- Prof. Purusottam Jena, VCU, USA
- Prof. S. D. Mohanti, Michigan State University, USA
- Prof. Sashi Satpathy, University of Missouri, USA
- Prof. Sekhar Chandra Ray, University of South Africa
- Prof. Basanta Nandi, IIT Mumbai
- Prof. Prasanta K. Panigrahi, Director, IISER Kolkata
- Shri H. K. Ratha, Director, ITR, Chandipur
- Shri DK Joshi, Director, PXE, Chandipur
- Prof. G. C. Rout, Former Prof. FMU, Balasore
- Dr. Kamala Kanta Chand, Retd. Scientist, PXE, Chandipur
- Prof. Kamal Lochan Panigrahi, IIT Kharagpur
- Prof. Asoka Kumar Das, Vice Chairman, DHE
- Prof. Bedangadas Mohanty, NISER, Bhubaneswar
- Prof. Karuna Kar Nanda, Director, IOP, Bhubaneswar

### National Organizing Committee

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- Dr. Jajati Kesari Nayak, VECC, Kolkata
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- Dr. Shantinarayan Rout, Amity University, Mumbai
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- Dr. Dibyaranjan Rout, KIIT, Bhubaneswar
- Dr. Bidhubhusan Sahu, KIIT, Bhubaneswar
- Dr. Kamalakanta Jena, Bhadrak (Auto) college
- Dr. Jnanranjan Panda, Sri Sri University, Cuttack

### About the Seminar

National Seminar on "Recent Advances in Physics and Ballistics" aims to bring together leading experts, researchers, and students to discuss the latest developments and breakthroughs in Physics and ballistics. Participants will have the opportunity to explore various topics, including **Quantum Computing, Optics, Astrophysics, High-energy Physics, Condensed matter Physics, Laser photonics, fiber optics, and Ballistics**. The seminar also provide a platform to foster collaboration and network with esteemed professional in the fields, Join us in this enriching experience as we delve into the fascinating world of physics and ballistics and unravel the mystery of our universe.

### Local Organizing Committee

<b>Chief Patron</b>	Prof. Santosh Kumar Tripathy Vice Chancellor
<b>Patron</b>	Prof. Sabyasachi Pattnaik, Chairman, P. G. Council,
<b>Chair-person</b>	Flt. Lt. Prof. Munesh Chandra Adhikary, Adjunct Professor, Dept of Physics
<b>Convener</b>	Dr. Santosh Kumar Agarwalla
<b>Co-Convener</b>	Dr. Bibekananda Nayak
<b>Organising Secretary</b>	Dr. Rajib Biswal
<b>Joint Organising Secretaries</b>	Mr. Himanshu Bhusan Nayak Dr. Tanmay Das Dr. Samar Kumar Ghose
<b>Members</b>	Prof. Surjendu Kumar Dey, Dept. of EVS Prof. Satchidananda Dehuri, Dept of CS Prof. Manoranjan Mishra, Dept. of Geography Dr. Nihar Ranjan Rout, Dept. of Geography Dr. Bhaskar Behera, Dept of BSBT Dr. Ashanta Ranjan Routray, Dept of CS Dr. Prakash Chandra Mishra, Dept. of EVS Dr. Pankaj Parhi, Dept. of Chemistry Dr. Amulya Kumar Acharya, Dept. of Education Dr. Pabitra Mohan Nayak, Dept. of Social Science Dr. Amit Kumar Sharma, Dept. of Mathematics Dr. Asim Amitabh Pradhan, Dept. of Geology

### Inaugurator/Chief Guest

Prof. Ajit Kumar Mohanty, Chairman, Atomic Energy Commission, Secretary to Govt. of India, DAE and Director, BARC

### Memorial Lectures

<b>Prof. B. B. Deo Memorial Lecture</b>	Prof. Jayaram N. Chengalur Director, TIFR Mumbai
<b>Prof. S. N. Behera Memorial Lecture</b>	Prof. Bhupendra Nath Dev CQUERE, TCG CREST, Kolkata
<b>Prof. T. Pradhan Memorial Lecture</b>	Prof. Ajoy Kumar Ghatak Former Professor, IIT Delhi

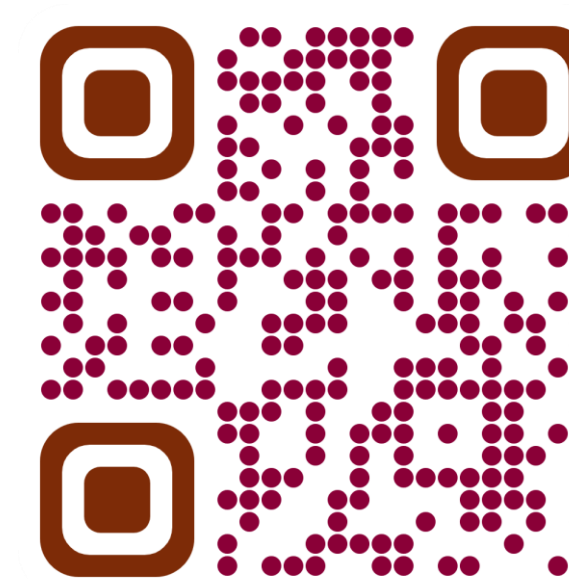
### Registration Form

Visit this Link: <https://forms.gle/XICm5Nxy7J4GSWxs8>

Or Scan the QR Code for Registration.

**Last date** for registration 15<sup>th</sup> January 2023

Fee payment 9 a.m. onwards at the venue on 10<sup>th</sup> Feb 2024



### Places to visit



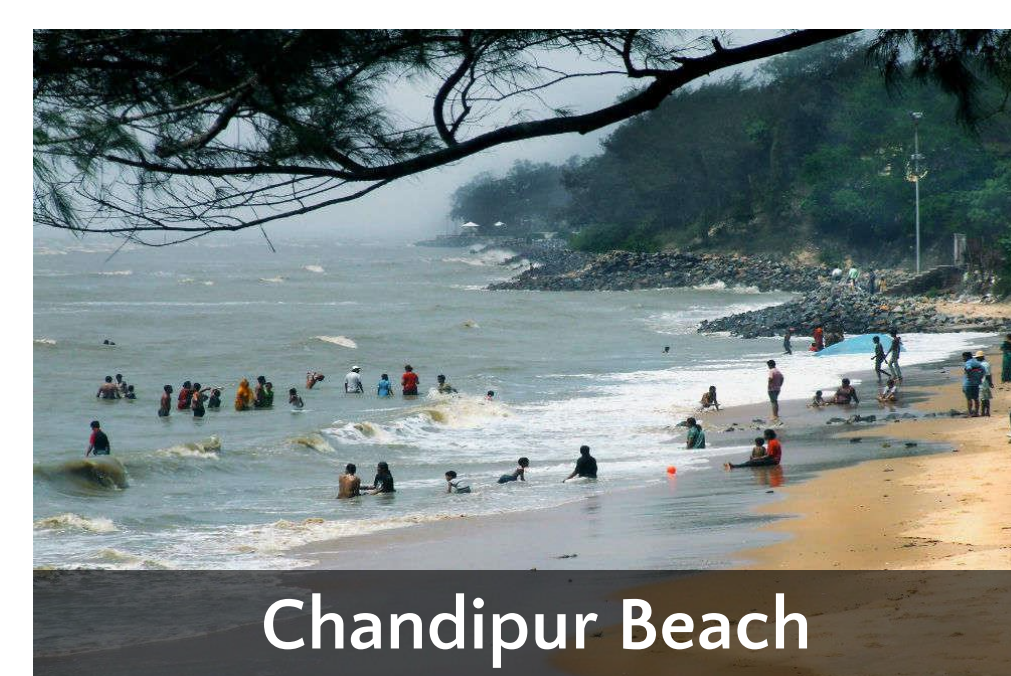
Emami Jagannath Temple



Blue Lake, Mitrapur



PXE and ITR, DRDO  
Chandipur



Chandipur Beach



Pancha Lingeswar Temple



Khirachora Gopinath Temple

### About Orissa Physical Society

The Orissa Physical Society (OPS) is an association of Physics teachers and researchers of Odisha origin. It was registered in 1971 (Regd. No. 7056/5-1973-74). It aims to promote physics education in various ways at different levels in the state. It is working to promote and encourage original research by organizing seminars and publishing journals, bulletins, and memoirs. More than 800 Physics Teachers/Scientists are Life/Patron members of this organization.

### Application for Young Scientist Award

The application format, eligibility criteria (below the age of 35 years as on 31<sup>st</sup> December 2023) and other details can be obtained from the OPS website [www.orissaphysicalsociety.org](http://www.orissaphysicalsociety.org). Applicants should submit their application by 31<sup>st</sup> December 2023.

### Call for Abstract/Article for Souvenir

Interested Participants are requested to submit one page abstract/full article to [fmuops2024@gmail.com](mailto:fmuops2024@gmail.com) by 31<sup>st</sup> December 2023. Acceptance of abstracts will be notified through email to present their papers in Poster form or in oral form. The full papers can be submitted to Orissa Journal of Physics for publication.

### Call for papers: OJP (Orissa Journal Of Physics)

Research/Review articles in any field of Physics for possible publication in OJP may be submitted at any time of the year. The article should be in the format of PRAMANA Journal of Physics. A soft copy of the article should be sent through e-mail to The Editor in Chief: Prof. L. P. Singh, at [lambodar\\_uu@yahoo.co.in](mailto:lambodar_uu@yahoo.co.in), or to [babitapani@gmail.com](mailto:babitapani@gmail.com) (publisher)

### Digbalaya

Article in Odia for the journal Digbalaya should be sent to the following:

**Dr. Shree Mishra**  
Editor, Digbalaya  
A/412, Sahid Nagar, Bhubaneswar-751007  
Mob. 9861055808  
Email: [shreemishra55808@gmail.com](mailto:shreemishra55808@gmail.com).

**Deadline** for submission of Papers / Articles for 'Digbalaya' & OJP: 31<sup>st</sup> December 2023

### OPS Life Member/Patron Member

Application form and mode of the payment of fees for enrolment as Life Member or Patron Member can be downloaded from the OPS website. [www.orissaphysicalsociety.org](http://www.orissaphysicalsociety.org)

REGISTRATION FEE:	
OPS Convention and National Seminar	: ₹ 1000/-
OPS Annual Membership	: ₹ 200/-
OPS Life Membership	: ₹ 1000/-
OPS Patron Membership	: ₹ 3000/-
Up-gradation from Life member to Patron	: ₹ 2000/-

**For details, please contact**

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