



PM-USHA SPONSORED



NATIONAL SEMINAR

ON

**FRONTIERS IN PHYSICAL SCIENCES: RECENT
ADVANCES AND EMERGING TRENDS
(FPS: RAET – 2026)**

Date: 11th – 12th September, 2026

Venue: Conference Hall, New Academic Building
Kantabanji Vocational College, Kantabanji



Jointly Organised By

Department of Physics

&

Department of Chemistry

Kantabanji Vocational College, Kantabanji

Website- <https://www.kvcollege.ac.in/>

କଣ୍ଟାବାଞ୍ଚି ଭୋକେସନାଲ କଲେଜ, କଣ୍ଟାବାଞ୍ଚି



KANTABANJI VOCATIONAL COLLEGE, KANTABANJI



NATIONAL SEMINAR ON FRONTIERS IN PHYSICAL SCIENCES: RECENT ADVANCES AND EMERGING TRENDS

ABOUT THE SEMINAR

Physical Science, encompassing physics, chemistry, material sciences, and related interdisciplinary fields, has witnessed remarkable progress in recent decades. Rapid technological advancements, computational innovations, and experimental breakthroughs have transformed our understanding of matter, energy, and the universe. Emerging research areas—such as nuclear science, medical science, quantum technologies, nanoscale science, artificial intelligence, renewable energy, and advanced materials—are shaping the future of science and technology. These frontiers are expanding scientific knowledge while also addressing global challenges related to healthcare, energy, climate change, communication, and sustainable development.

SUB-THEMES 1

- Quantum Science and Quantum Technologies
- Nuclear & High Energy Physics
- Astrophysics, Space Science and Cosmology
- Nano Science and Advanced Functional Materials
- Computational Physics and Artificial Intelligence
- Condensed Matter and Material Physics
- Photonics, Optics and Laser Science
- Plasma Physics and Fusion Energy
- Climate Science and Environmental Physics



SUB-THEMES 2

- Green Chemistry & Sustainable Technologies
- Nano chemistry & Nanomaterials
- Artificial Intelligence & Machine Learning in Chemistry
- Electrochemistry & Next Generation Batteries
- Photochemistry & Solar Energy Conservation
- Environmental Chemistry & Pollution Control
- Polymer Chemistry & Functional Polymers
- Chemical Sensors & Biosensors
- Hydrogen Energy: Production, Storage & Applications
- Biomaterials & Bioinspired Chemistry



Abstract Submission till 31st August, 2026 5:00 PM
science.seminar.kvc@gmail.com

PATRONS OF SEMINAR



CHIEF PATRON

Shri Padmanav Samantray, OAS
Sub-Collector, Titlagarh
President, G.B., K.V. College, Kantabanji



PATRON

Dr. Manoj Patnaik
Principal
K.V. College, Kantabanji



Mr. Rajesh Kumar Mohanty

Nodal Officer, PM-USHA
HOD, Dept. of Political Science
K.V. College, Kantabanji

ORGANISING COMMITTEE



CONVENOR

Mr. Karunakar Naik
HOD, Dept. of Physics
K.V. College, Kantabanji



CONVENOR

Mrs. Namita Mohanty
HOD, Dept. of Chemistry
K.V. College, Kantabanji



CO-CONVENOR

Mr. Surendra Patel
HOD, Dept. of Computer Science
K.V. College, Kantabanji



CO-CONVENOR

Mrs. Pallishree Joshi
Faculty, Dept. of Physics
K.V. College, Kantabanji

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Prof. Dr. Keshaba Chandra Panda
Retired Professor, Sambalpur University

Prof. Dr. Suresh Kumar Patra
Distinguished Professor ITER, SOA
Bhubaneswar
Ex-Faculty, IOP, BBSR

Dr. Tarun Kumar Pradhan
Retired Principal & Reader
Khariar Autonomous College, Khariar

Dr. Debabrata Mishra
Associate Professor, University of Delhi

Dr. Jhasketan Bhoi
Assistant Professor, VSSUT, Burla

Dr. Nanda Kumar Hota
HOD, Dept. of Chemistry
DAV(Auto) College, Titlagarh

Dr. Kshirodra Kumar Patra
Faculty in Chemistry
Loisingha College, Loisingha

Dr. Sanjaya Kumar Mishra
Faculty, PG Dept. of Odia
K.V. College, Kantabanji

OBJECTIVES OF THE SEMINAR

- To explore recent advances in physical sciences
- To provide a platform for researchers, academicians and students to exchange knowledge, ideas and innovative research finding
- To discuss emerging trends and future challenges in physical sciences
- To promote interdisciplinary collaboration among educational institution, research organisation and industry
- To inspire young researchers and students to undertake quality research

Organizing Committee Members

Mr. Jashobanta Narayan Mishra,
Administrative Bursar

Mr. Rohit Kishor Kumbhar,
Academic Bursar

Mr. Jatin Dwari, IQAC Co-Ordinator

All members of PM-USHA

HOD'S all Departments

Faculty and staff

K.V. College, Kantabanji

CONTACT DETAILS

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Mr. Suratha Mahakur
Lab Asst. in Physics
7894774726

ABOUT THE COLLEGE

Established in 1985, K.V. College, Kantabanji has emerged as one of the leading institutions of higher education in western Odisha. The college introduced B.Sc. degree courses in 2017. Today it offers post graduate programs in Physics, Botany, Commerce, Odia, History, Political Science, reflecting its steady academic growth and commitment to quality education. It has consistently nurtured talented students who have gone on to achieve distinguished positions in diverse fields, bringing pride and recognition to the institution. The college continues to strive for academic excellence while contributing significantly to the educational and socio-economic development of the region.

KEYNOTE SPEAKERS



Prof. Dr. Suresh Kumar Patra
Distinguished Professor ITER, SOA
Bhubaneswar
Ex-Faculty, IOP, BBSR



Dr. Tarun Kumar Pradhan
Retired Principal & Reader
Khariar Autonomous College, Khariar
OCS, IANCAS Member

INVITED SPEAKERS



Dr. Debabrata Mishra
Associate Professor, University of Delhi



Dr. Manas Ranjan Parida
Scientist
King Fahd University of Petroleum
and Minerals, Saudi Arabia



Dr. Santosh Kumar Parida
Associate Professor
SOA, Bhubaneswar



Prof. Shibesh Kumar Jas Pacif
Founder Director, PICS



Dr. Alekha Kumar Sutar
Associate Professor
NIT Raipur



Dr. Tungabidya Maharana
Associate Professor, NIT Raipur



Dr. Dhananjaya Thakur
Assistant Professor, IIT(BHU)



Dr. Gajendra Kumar Pradhan
Asst. Prof., Rajendra University



Dr. Jagajit Kamila
HOD, Dept. of Physics
Rajendra University



Dr. Kshirodra Kumar Patra
Faculty in Chemistry
Loisingha College, Loisingha



Ms. Smaraki Bhaktisudha
PhD Scholar, NIT Warangal

CALL FOR PAPERS

- Researchers, Academicians, UG and PG students are invited to submit original research paper.
- Send your paper to this Email ID- science.seminar.kvc@gmail.com
- Abstract should be prepared in 400 to 500 words and submitted within date - 31.08.2026.

GUIDELINES FOR POSTER PRESENTATION

Participants are requested to follow the guidelines below while preparing and presenting their posters:

1. Eligibility

- UG and PG Students, Research Scholars are eligible to participate.

2. Theme

- Posters should be based on the seminar theme: **"Frontiers in Physical Sciences: Recent Advances and Emerging Trends"** or any of its relevant sub-themes.

3. Title

- The poster should have a clear, concise, and informative title along with the names of the author(s) and their institutional affiliation(s).

4. Poster Size

- Poster size should be **(3 ft × 4 ft)** in **Portrait Orientation**.

5. Content

- The poster should include:

- Title
- Author(s) and Affiliation(s)
- Introduction
- Objectives
- Methodology (if applicable)
- Results and Discussion
- Conclusion
- References

STAFFS IN CHARGE OF POSTER

Sonia Behera

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Mob - 7606044343

Mousam Putel

Lab. Asst., Dept. of Chemistry
Mob -9348817613

Subhendu Nag

Lab. Assistant in Chemistry
Mob – 8847823805

6. Originality

- The poster must present original research or innovative work. Plagiarism or duplication of previously published work is strictly prohibited.

7. Students must carry their college Identity card, Aadhar or any other govt. validated I'd proof.

REGISTRATION PROCESS

Registration for the seminar will be conducted through both online and offline mode to ensure maximum participants.

1. **Online Registration:** Participants are encouraged to register in advance by filling out the Google registration form within date **31st August 2026**.
2. **Offline (On –the- Spot) Registration:** Participants who are unable to register online may complete their registration at the venue of the day of the seminar, subject to the availability of the seats and presentation slots.

Link for Registration/ Abstract Submission-

https://docs.google.com/forms/d/e/1FAIpQLSdMAAtLW_YWGHnuMaPosHAj8N6QhGxiyxA-JvXBUqHt9gZhkQ/viewform?usp=publish-editor



LOCATION

Conference Hall
New Academic Building
K.V. College, Kantabanji
Dist- Balangir (Odisha)
PIN- 767039



Address Link - [Kantabanji Vocational College, Kantabanji, CWXF+47F, SH 42, Kantabanji, Kuliadarha, Odisha 767039](#)