

# 2<sup>nd</sup> Flyer for Online WEBINAR

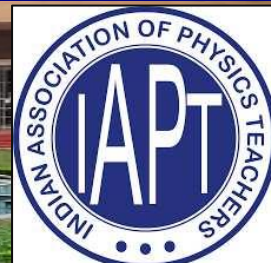
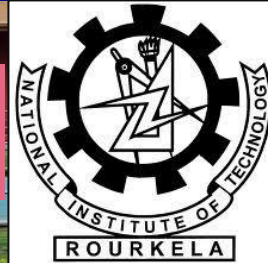
## Topic: Machine learning (ML) for Physics and Physics for ML

(On behalf of the Department of Physics and Astronomy, NIT Rourkela in collaboration with IAPT)

1<sup>st</sup> June 2024 (Saturday) to 5<sup>th</sup> June 2024 (Wednesday) (6.00 PM-8.30 PM)

National-level program jointly organized by

Department of Physics and Astronomy,  
NIT Rourkela



Indian Association of Physics Teachers  
(IAPT)

Speaker	Title
Prasant Kumar Panigrahi, Emeritus Professor IISER Kolkata and Director Centre for Quantum Science and Technology (CQST), SOA University, Bhubaneswar	Physics-inspired neural networks for feature extraction and pattern recognition
Bipin Kumar, Scientist E, IITM Pune	Machine learning at the Forefront: Enhancing Fire Prediction and addressing real-time Pollution
Dillip Kumar Bisoyi, Professor at Dept. of Physics and Astronomy, NIT Rourkela	Modeling of small angle X-ray scattering data through Machine learning.
Sushant Bisoi, Assistant Professor at Dept. of Physics and Astronomy, NIT Rourkela	Machine learning for Helio Physics and Space weather studies
Shradha Sharma Inspire faculty at Department of Physics and Astronomy, NIT Rourkela	Machine learning for quantum phase transition
Madhurima Jana Associate Professor at Department of Chemistry, NIT Rourkela	Protein Structure and Dynamics: When molecular simulation meets machine learning
Jagabandhu Panda, Associate Professor at Department of Earth and Atmospheric Science, NIT Rourkela	Machine learning frameworks and their applications for land, atmosphere, ocean and environmental studies
Bibhuti Prasad Sahu, professor at Department of Computer Science and Engineering NIT Rourkela	Quantum computing facility in the cloud
Sibarama Panigrahi, Assistant Professor at Department of Computer Science and Engineering NIT Rourkela,	Machine learning for healthcare applications

### National Advisory committee

Chairman: HOD Physics, NIT Rourkela  
Convenor: Prof D.K. Bisoyi, NIT Rourkela  
Co-convenor: Prof: JP Kar, NIT Rourkela  
Secretary: Prof. S.K. Bisoi, NIT Rourkela  
Treasurer: Prof. S. Sahoo, NIT Rourkela  
Prof. PK Ahluwalia (IAPT President)  
Prof Rekha Ghorpade (General secretary IAPT)  
Prof Sree Mishra (President RC-16, IAPT)  
Prof Rita Paikaray (General secretary RC-16, IAPT)

### Schedule for the Webinar

1<sup>st</sup> June 2024 to 5<sup>th</sup> June 2024  
(6.00 PM-8.30 PM)

Lecture 1: 6.00 PM -6.45 PM

Discussion: 6.45 PM-7.00 PM

Lecture 2: 7.30 PM -8.15 PM

Discussion: 8.15 PM-8.30 PM

Opening session: 5.30 PM to 6.00 PM (1<sup>st</sup> June 2024)

Closing session: 8.30 PM to 9.00 PM (5<sup>th</sup> June 2024)

NB: Prof. B.D. Sahu will cover both the slots on 1<sup>st</sup> May 2024

Physics teachers, research scholars, PG and UG students across the country

### Local Organizing Committee:

Patron: Dean (SRICCE), NIT Rourkela  
Chairman: HOD Physics, NIT Rourkela  
Convenor: Prof D.K. Bisoyi, NIT Rourkela  
Co-convenor: Prof: JP Kar, NIT Rourkela  
Prof. B. Ganguli, NIT Rourkela, Member  
Prof. S. S. Jena, NIT Rourkela, Member  
Prof. P. Kumar, NIT Rourkela, Member  
Prof. Dillip K. Pradhan, NIT Rourkela  
Prof. A. K. Singh, NIT Rourkela  
Prof. P. Mahanandia, NIT Rourkela  
Prof. S. N. Dash, NIT Rourkela, Member  
Prof. A. C. Pradhan, NIT Rourkela, Member  
Prof. S. Mishra, NIT Rourkela, Member  
Prof. S. Datta, NIT Rourkela, Member  
Prof. S. C. Mahapatra, NIT Rourkela, Member  
Prof. M. Biswas, NIT Rourkela, Member  
Prof. I. Banerjee, NIT Rourkela, Member  
Prof. Bharat Kumar, NIT Rourkela, Member  
Prof. A. P. Yadav, NIT Rourkela, Member  
Prof. G. N. Daptary, NIT Rourkela, Member  
Prof. S. K. Bisoi, NIT Rourkela, Member  
Prof. S. Sahoo, NIT Rourkela, Member

### Registration fee:

UG/PG/Research Scholars: Rs. 500/-  
IAPT Members: Rs. 600/-  
Physics Teachers: Rs. 800/-

The last time of registration is extended up to:  
31<sup>st</sup> May 2024 (11.59 PM)

The prizes will be decided on the basis of marks secured in the quiz tests on 8<sup>th</sup> June 2024 (Sunday)  
1<sup>st</sup> Prize:5000/-  
2<sup>nd</sup> Prize:3000/-  
3<sup>rd</sup> Prize 2000/-

There will be a separate Quiz test conducted by IAPT on 8<sup>th</sup> June 2024 (Sunday) at 6.00 PM instead of an individual quiz test after each lecture.

Those who paid the registration fees for the webinar need not pay again the registration fees for the quiz tests. But those who have not paid the registration fees they have to pay the same amount to the IAPT account. For details contact. Mr. Ramyaranjan Das (PhD Scholar)|Email: [dasramyaranjan@gmail.com](mailto:dasramyaranjan@gmail.com)  
Ph no :7684027512/7008856332

Registration URL: <https://forms.gle/uq3uMbsayouiCR5R9>

NB: Registration must be done through the Google Meet link only  
Registration fee can be paid online via NEFT/RTGS/IMPS using the following information:

Account Name: Conference, NIT Rourkela  
A/C No.: 36734418111

Bank: State Bank of India (SBI), Branch: NIT Rourkela Campus  
Branch Code: 002109

MICR Code: 769002007

SWIFT Code: SBININBB137

IFSC Code: SBIN0002109

Dr. Arvind Kulkarni (IAPT Life member, Presently at USA): Science Communicator

Contact details:

Coordinator: Dillip Kumar Bisoyi Visit: [www.nitrkl.ac.in](http://www.nitrkl.ac.in)

Mr. Ramyaranjan Das (PhD Scholar)|Email: [dasramyaranjan@gmail.com](mailto:dasramyaranjan@gmail.com)

Ph no :7684027512/7008856332