



Institute Innovation Council

Pt. Ravishankar Shukla University, Raipur
Chhattisgarh – 492010

(Under The Initiative of Ministry of Education's Innovation Cell)

Aishe Code: U-0093

IIC ID: IC201810375

Report

Institute Innovation Council,
Pt. Ravishankar Shukla University,
Raipur

In association with

S.o.S in Physics,
S.o.S in Electronics & Photonics

Conducted

**“National Symposia on Innovation in Computational
Methods
(NSCM -2024)”**

On

22-23 October, 2024



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Poster

The poster features a header with logos of Pt. Ravishankar Shukla University, Institution's Innovation Council, MoE's Innovation Cell, Azadi Ka Amrit Mahotsav, Viksit Bharat Abhiyan, and IIC-PRSU. The main text is centered and reads: "Institute Innovation Council Pt Ravishankar Shukla University, Raipur in association with School of Studies in Physics and Astrophysics, & School of Studies in Electronics and Photonics Pt. Ravishankar Shukla University, Raipur Welcomes You to the 'National Symposia on Innovation in Computational Methods (NSCM 2024)' from October 22-23, 2024 | 11:00 AM Onwards Venue CV Raman Hall, Science block, PRSU, Raipur". The background is decorated with large, overlapping circles in shades of pink, yellow, and green.

10th October



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Details of Event

Name of Program Type	Session on Problem Solving and Ideation Workshop (Calender Activity under IIC-PRSU)
Name of Program Theme	National Symposia on Innovation in Computational Methods.
Objective	Foster a spirit of creativity, entrepreneurship, and innovation among students.
Benefit	Encouraged youth innovation and patriotism, aligning ideas with nation-building goals.
Duration of Activity	17 Hrs
Mode of Event	Offline
No. of Students Participants	100
No. of Faculty Participants	10
No. of External Participants	05
Expenditure Amount	6000

Facebook: <https://www.facebook.com/share/p/177QNmyb2i/>

Instagram:

https://www.instagram.com/p/DFrIC5pN7bm/?utm_source=ig_web_copy_link&igsh=Ymd6MXI2NW8wY3pt

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About the Event

National Symposia on Innovation in Computational Methods was organized by School of Studies in Physics and Astrophysics, and School of Studies in Electronics and Photonics, Pt. Ravishankar Shukla University, Raipur in association with Pt. Ravishankar Shukla University, Raipur on October 22-23, 2024. The Inauguration session of the symposia was held on 22.10.2024. Prof. A. C. Pandey, Director IUAC New Delhi (chief guest), senior professors Prof. S. K. Pandey Former Vice Chancellor of Pt. RSU, Prof. Y. M. Gupta and Prof. Ravindra Pandey, Michigan Tech University, Michigan, USA were guest of honor of this conference. After the formal inauguration, Dr. Y. K. Mahipal, convener of the symposia gave the welcome Address and brief introduction about the symposia and Prof. Nameeta Brahme introduce the department and their achievements. The first technical session of the symposia has started with the talk of Prof. A. C. Pandey. He started his talk with the history of physics and its connection with mathematics and later on its connection with simulation. Furthermore, the speaker explained the prediction of weather forecast as well designing of MRI machines on the basis of Simulation in a very simple way. Second technical talk of this session was delivered by Prof. Sandeep Nigam, Chemistry Division, BARC Mumbai. The topic of his talk is "Discerning the link of computational methods on experiments: connecting few dots". In this session, Invited talks were delivered by Prof. Ravindra Pandey from Michigan Tech University, Michigan. His talk is based on the modelling of 2D material using first principle DFT theory. He started his talk with brief introduction about simulation methods, range of materials for simulation, characterization techniques and synthesis. He further explains how a band gap is created in a zero band gap material by considering the concept of heterostructure. He also manifest the verification of modelled materials experimentally through some examples. On 23.10.2024, the technical session was start with the talk of Prof. Naresh K Nagwani, Dept. of Computer Science & Engineering, NIT Raipur. He explained the quantum computing with the help of Gaussian software. After that Prof. M. N. Tripathi, Guru Ghasidas (Central) University, Bilaspur was delivered his talk on the topic of "Density Functional Theory (DFT)". The speaker introduce about DFT and tell that how to find the ground state energy of any molecule using DFT. There after he also provides the hands on training to the research scholars by using Gaussian Software. In the parallel session Prof. Sandeep Nigam interact with M. Sc. Students. In this session Dr. Laxmi Kant, delivered talk in the topic of "Accelerating Physics with Python: An Introduction". He highlighted Python's significance in modern physics, emphasizing particularly in visualizing data and conceptual frameworks, effectively bridging theoretical insights with practical applications. On Valedictory function, Convener of the conference Dr. Y. K. Mahipal has delivered brief report of the conference. The Prof. Y. M. Gupta (Chief Guest), Prof. R. N. Baghel (Special Guest) were present in this



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function. In this function the best two poster presentations have awarded with cash price. Mr. Chitrkant Belodiya gave vote of thanks on behalf of organizing committee.

Photos:



Dr. Kavita Thakur

Dr. Kavita Thakur
President, IIC PRSU