For Immediate Release, March 27, 2026

PRESSRELEASE

From Equations to Life: IIT (ISM) Dhanbad Bridges Mathematics and Medicine in High-Impact Workshop

In a powerful convergence of theory and real-world relevance, IIT (ISM) Dhanbad has launched a two-day workshop that places mathematics at the heart of human health—bringing together leading academicians to decode how equations can transform lives. The Department of Mathematics & Computing inaugurated the national workshop titled "From Equations to Life: Mathematical Insights into Human Health" on March 27, setting the stage for an engaging exploration of the intersection between mathematics, biology, and healthcare.

The inaugural session, held at the department's Seminar Hall, was graced by Director Prof. Sukumar Mishra as Chief Guest, who formally inaugurated the workshop. Head of the Department, Prof. S. P. Tiwari, and Convenor Prof. R. K. Upadhyay were also present.

Addressing the gathering, Prof. Mishra emphasized the growing relevance of mathematical tools in solving complex healthcare challenges, noting that such interdisciplinary engagements are "the need of the hour." Prof. Upadhyay highlighted how mathematical equations are deeply embedded in real-life applications, especially in understanding human health dynamics. Prof. Tiwari underscored the emerging role of Artificial Intelligence and its integration with mathematical sciences in advancing healthcare research.

Organised under the Scientific Social Responsibility (SSR) initiative of ANRF in collaboration with NASI Jharkhand Chapter, the workshop is designed for selected teachers across Jharkhand. It aims to foster deeper understanding of mathematical biology and promote meaningful academic engagement through expert-led lectures and interactive sessions.

The programme features lectures by eminent speakers including Prof. B. V. Rathish Kumar (IIT Kanpur), Dr. Subhamoy Mandal (IIT Kharagpur), Dr. Subhas Khajanchi (Visva-Bharati), Dr. Gajendra K. Vishwakarma, and Dr. Umakanta Tripathy (IIT (ISM) Dhanbad). Topics range from medical imaging and Bayesian modelling to Parkinson's disease modelling and electromechanical equations for cardiac motion, offering participants a comprehensive view of emerging research areas.

The workshop will also include simulation-based discussions, campus exposure visits, and interactive sessions, culminating in a valedictory programme on March 28. With over 25 participants attending offline and more than 60 joining online, the workshop reflects strong academic interest and is expected to significantly contribute to advancing interdisciplinary research in healthcare.

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