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Press Release

Two-Day Workshop on Fiber Optic Sensors Kicks Off at IIT (ISM) Dhanbad

The Indian Institute of Technology (Indian School of Mines) Dhanbad is hosting a two-day workshop on Fiber Optic Sensors and their applications on December 6-7, which commenced today at the Sir JC Bose Hall of the Academic Complex. The event has attracted a total of 79 participants, including 10 faculty members and Junior Research Fellows from various institutions across the country.

Organized by the Department of Electronics Engineering at IIT (ISM) Dhanbad, the workshop is part of a sponsored project by the Science and Engineering Research Board, Department of Science and Technology, Government of India. Participants are engaging in comprehensive discussions on the fundamental principles, technological advancements, and specific applications of Fiber Optic Sensors, including those based on plasmonics.

The inaugural session featured esteemed speakers, including Chief Guest Prof. Sukumar Mishra, Director of IIT (ISM) Dhanbad. In his address, Prof. Mishra emphasized the Government of India's significant investment in sensor technology, with an allocation of approximately Rs 25,000 crore for establishing sensor testing laboratories. He highlighted the current reliance on imported sensors across various devices and underscored the urgent need for domestic innovation in this field.

Prof. Partha Roy Chaudhuri, a Professor in the Department of Physics, served as the Guest of Honor and remarked on the importance of such workshops for knowledge enhancement, advocating for their more frequent organization. Additionally, Prof. Subindu Kumar from the Department of Electronics Engineering provided insights into the department's history, courses, and infrastructure, while Prof. Amitesh Kumar, who delivered the welcome address, expressed gratitude for the overwhelming response to the workshop.

The workshop will feature expert sessions on topics such as distributed fiber sensors for industrial environments, selective detection of pollutants using model interferometers, Wave Flex biosensors for healthcare applications, and a software demonstration for modeling optical sensors using COMSOL Multiphysics on the concluding day.

This workshop represents a significant step towards advancing research and development in the field of Fiber Optic Sensors, fostering collaboration among academia and industry professionals.

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