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PRESS-RELEASE

Experts of IIT (ISM) promote STEM education among children of Project Affected Persons of BCCL using the visual approach, logical approach and experimental approach of education.

Altogether, 212 students from Classes IX and X of the Upgraded High School Bareer Colliery in Jharia discovered the mysteries of everyday science through simplified experiments performed by a team of experts from the Department of Management Studies and Industrial Engineering of IIT (ISM) Dhanbad today.

The occasion was a day-long motivation session to promote STEM education among the children of Project Affected Persons (PAP) of BCCL performed by the IIT (ISM) team led by Prof. Rashmi Singh, during which they promoted STEM education among the targeted students using the three distinct learning media approaches, including the visual approach, logical approach, and experimental approach.

The visit of the IIT (ISM) team, during which Keshav Ravi Das, Principal of School, and other teachers besides the students were present, was part of a collaborative effort of IIT (ISM) and BCCL to promote stem education among children of PAP of BCCL as per a CSR initiative of BCCL.

“An effort was made to create interest among the students during the visit by performing three different experiments, including Lava Lamp Deals (related to the concept of solubility and density); the water egg test—explaining the concept of floatation and density; and the Burning Candle Oxygen Test related to the combustion concept,” said Prof. Rashmi Singh.

Prof. Niladri Das, Associate Professor of the Department of Management Studies and Industrial Engineering, who was also present during the visit as Co Principal Investigator of the project, said , “The comprehensive approach to arouse the interest of the students toward science, technology, engineering, and mathematics learning also aims to empower students with necessary tools to pursue further education and careers in these critical areas.

Explaining one of the experiments, the Egg Water Test Experiment, based on the concepts of density and flotation Das said, Salt water has a higher density compared to fresh water due to salt dissolved in it, while the egg’s density is between saltwater and fresh water, so in fresh water the egg sinks as it is denser, while in salt water it floats.

The IIT (ISM) team on September 26 visited two schools in Dhanbad, including Jharia Academy School, Jharia and KC Girls School, as part of an effort to promote STEM education among children of PAP of BCCL.

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