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PRESS RELEASE

IIT (ISM) researchers develop AI and IOT based Integrated River Health Investigation System (IRHIS)

A two member research team of Department of Environmental Science & Engineering of IIT (ISM) has developed an Artificial Intelligence (AI) and Internet to Things (IOT) based online real time river health monitoring system, titled, Integrated River Health Investigation System (IRHIS).

The system developed by Prof SK Gupta in association with his research scholar Sujoy Gupta in 2021-2023 is inbuilt with safety alarms and video camera to facilitate early signals to the decision makers against flooding, theft, and critical pollution locations etc.

The demonstration of system has been made last week during a mega exhibition of Union Ministry of Education held on the occasion of 3rd Anniversary of the National Education Policy (NEP) 2020 and the 2nd edition of the Akhil Bhartiya Shiksha Samagam at News Delhi.

The event held from July 29th to July 30th, 2023, at Plenary Hall, ITPO, Pragati Maidan, New Delhi which was inaugurated by Honorable Prime Minister in presence of other senior ministers including Shri Dhamendra Pradhan, Education Minister witnessed the selection on only deep-tech and high-impact innovations for demonstration that are high-impact innovations that are in the advanced stage of, and Innovative Startups and a demonstrable innovation

Giving details, Prof SK Gupta said, " It is one of the most advanced AI and IoT based online real time river health monitoring system developed to fulfil the SDG 6 keeping in view of its vital application in Namami Gange mission".

"Equipped with advanced sensors IRHIS can help in real time monitoring of discharge of any toxic material in the river" further said Prof Gupta and added that the patent for the system has already been published.

Regarding the selection of his system for demonstration in exhibition he said, "MoE's Innovation Cell and AICTE, selected 150 Technology Readiness Level 7 (TRL 7) or above early-stage startups, edutech growth stage startups, innovations, and Institutions to demonstrate their contributions and breakthrough innovation achievements towards achieving the overall goal as envisioned under the National Education Policy 2020" further said Gupta.

"The collaboration with the Telecom Startups-MSMEs Mission, SRI, DoT, Ministry of Communications, GoI, is in progress for its implementation in rural development, river monitoring, and industrial surveillance" summed up Prof Gupta.

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