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IIT-I sets up DRISHTI in Interdisciplinary Cyber Physical Systems

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The Indian Institute of Technology, Indore, has set up a Technology Innovation Hub (TIH), named DRiving Innovation through Simulation Hub for Technologies in Interdisciplinary Cyber Physical Systems (DRISHTI CPS), which plans to lead in skill enhancement, technology development and product commercialisation. The overarching objective of the proposed hub is to create an ecosystem that supports the development and commercialisation of technologies facilitating modelling, simulation and visualization of CPS.

Towards this IIT, Indore, has appointed a new CEO, Col. Sunil Dutta (retd).

IIT, Indore, director Prof. Neelesh Kumar Jain, director (officiating) said, "The objective of DRISHTI CPS will be achieved in the true sense by creating a self-sustaining system which supports R&D projects, patenting, licensing and commercialisation, incubation of start-up companies and spin-offs and initiation of joint projects with industry. The hub plans to organise short courses and webinars and offer fellowship programmes soon."

The details may be shortly available on the website (drishticps.iiti.ac.in) of the company.

Dr Pavan Kumar Kankar, project director, said, "All entities of IIT, Indore, will have to work as a team along with industry, R&D organisations, and the sister technology innovation hubs to achieve the objectives of NM-ICPS."

After taking over the reins of the company, Dutta said, "There is growing importance of CPS in every field associated with human beings. The demand of digital presence in every facet of life has necessitated a paradigm shift in the existing ecosystem. This digitisation isn't restricted to human beings. In fact, machines and modern systems, apart from being digitised, are also expected to be inter-connected via Internet of Things (IoT) deployments. Such systems, popularly known as Cyber Physical Systems (CPS), are capable of taking autonomous decisions using data analytics and artificial intelligence. There has been a rapid proliferation of CPS in the lives of human beings. The National Mission on Interdisciplinary Cyber Physical Systems (NM-ICPS) clearly highlights the important part that CPS will play in everyday life. However, there are challenges when it comes to effective modelling, simulation and visualisation of CPS deployments."

Dutta was instrumental in coining the concept of Adaptive and Non-Cyclic preventive maintenance using CPS.