

# IIT-I may set up CoE on healthcare with AIIMS, MYH

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**Indore:** Indian Institute of Technology (IIT), Indore is in discussion with All India Institute of Medical Sciences (AIIMS) Delhi to set up a Center of Excellence (CoE) on health care that will use the Cyber Physical System to predict complications in under treatment patients in advance and helps doctors take preventive measures.

The CoE will also monitor the working of critical care equipment like CT machine, MRI machine and ventilator using IOT to identify operational glitches on time, impart training and conduct research work.

A Cyber Physical System is a computer based system

where the mechanism is controlled or monitored by computer-based algorithms.

DRISHTI CPS Foundation, a Technology innovation hub of IIT-I and backed by the Department of Science & Technology, is also in talks with the MY Hospital Indore, Software Technology Park of India (STPI) and other players for setting up the CoE on health care.

Professor Bhupesh Lad, project director at DRISHTI CPS Foundation said, "We are working on setting up a Center of Excellence on health care for which we are in talks with the state government and other stakeholders. AIIMS and many others like Software Technology Park of India and MY hospital are into discussion."

IIT-I is also contemplating to rope in the state government in the establishment of the CoE.

Dr Deepak Agrawal, Neurosurgeon at AIIMS, Delhi said, "Health care sector has remained somehow neglected

## STREAMLINING THE SYSTEM

and through this initiative we got to know that many healthcare problems can be solved through the cyber-physical systems. We have a joint project with Dristhi CPS, IIT Indore, wherein the cyber-version of the ventilated neuro trauma patients which means that all the vitals of these patients and ventilator parameters will

be shared on cloud in the real time and modeling will be done on those vitals. This will help in predicting the complications earlier than they would actually happen, helping clinicians take preventive measures".

Dr Agrawal was in Indore to attend a technology exhibition by DRISHTI CPS Foundation on Sunday.

A team of around 8-10 doctors from AIIMS with specialization in medicine, emergency, neurosurgery, intensive care and cardiology will be a part of this initiative.

In the initial phase, the system will alert the doctors on complications like pulmonary edema, pneumonia and cardiac overload in patients.

"We are hoping that by using these solutions doctors

might get warned earlier a day or two earlier that these things happen so we can take corrective action," he said.

DRISHTI CPS Foundation hosted the first edition of "SETU" (Stakeholder Engagement in Technology Upgradation) showcasing various startups, innovations and connecting technology developers and end-users in the Cyber-Physical Systems (CPS) domain. Padma Bhusan Kris Gopalakrishnan, co-founder Infosys, Padma Shri professor Deepak Phatak, chairman, board of governors at IIT Indore and professor Suhas S Joshi, director, IIT Indore and other dignitaries from medical, technology and other sectors were present on the occasion.