

IIT Hyderabad to collaborate with four Japanese institutions on research in earthquake engineering

Prof BS Murty, Director, IIT Hyderabad, signed MoUs with the Institutions during this visit to Japan. This will be a major boost to Indo-Japanese collaboration.



Prof BS Murty, Director, IIT Hyderabad, display the MoU with Prof Kazuhiti Hashimoto, President, National Institute for Materials Science, Japan.

The Indian Institute of Technology (IIT) Hyderabad is going to collaborate with four major institutions in Japan for research in various areas including earthquake engineering besides in joint doctoral programs. This will be a major boost to Indo-Japanese collaborations in academic and research areas.

Prof BS Murty, Director, IIT Hyderabad, signed the MoUs with the Institutions during his recent visit to Japan. The Institutions include:

- MoU with Earthquake Disaster Mitigation Research Division (EDMRD), National Research Institute for Earth Science and Disaster Resilience, on Earthquake Engineering
- MoU with Graduate School of Science and Technology, Shizuoka University on Doctoral Degree Sandwich Program,
- MoU with Saitama University on Academic Exchange of faculty, students and implementation of cooperative Research Projects and educational programs,
- MoU with National Institute for Materials Science (NIMS) to strengthen Research collaboration

Prof Murty also held discussions with Nagoya Electric Works, Nihon University for a discussion on the Japanese Technical Cooperation Project for Smart Cities for Emerging Countries-based on sensing, network and big data analysis of Multimodal Regional Transport System.

Speaking about the importance of these collaborations, Prof BS Murty, Director, IIT Hyderabad, said, "IIT Hyderabad has signed MoUs with educational institutions in Japan to have a Joint supervision Program where research students can go there to continue some part of their research in these institutions. In the future to come, IIT Hyderabad is also working to have a Joint Doctoral Program as an outcome students will be benefited from a dual doctoral degree from both institutes."

"These will also will focus on the Faculty exchange program and scale quality of research. MoU with NIMs will benefit students with fellowship whereas MoU with E-DMRD is to develop technology for Earthquake resistance building. The overall aim is to enhance the quality of research in the institute," he added.

Aim of the collaboration:

The collaboration with EDMRD, National Research Institute for Earth Science and Disaster Resilience, aims to establish a high-level cooperative framework for both institutions in earthquake engineering with a focus on numerical simulation. The Institutions will undertake joint research activities, faculty exchange, joint seminars, internship opportunities in both institutions and other academic exchange programs.

The MoU between the Department of Electrical Engineering, IIT Hyderabad and Shizuoka University, envisages the introduction of a Doctoral Degree Sandwich Program (DDSP). Both Institutions will offer this course for their Doctoral Students, in which they can take up Research activities in partner Institutions. The DDSP students will be treated as 'Visiting Students' by the respective host Institutions.

As part of the collaboration with Saitama University of Japan, the two universities will

- Exchange faculty and other staff members
- Exchange students
- Plan and Implement cooperative research projects and educational programs, and
- Exchange academic materials, publications, and information.
- Under the MoU signed with NIMS, the two institutions will undertake research collaboration, promote the exchange of personnel and institutional exchange of scientific and technical information, organize symposia, conference, workshops and encourage joint research

Further, Prof Murty and Nagoya Electric Works, Nihon University discussed the functioning of the M2Smart Laboratory, inaugurated on 28th May 2019. It has helped achieve a major improvement of traffic vehicle detection by using Ahmedabad Traffic Monitoring System. Both Institutions are now considering collaboration in video recognition technology.

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