



भारतीय प्रौद्योगिकी संस्थान मंडी

INDIAN INSTITUTE OF TECHNOLOGY MANDI

# Institute Colloquium

**Productivity of Scientists and Engineers in  
Academic Setting**



**25th February, 2025**



**05:00PM**



**Auditorium, North  
Campus**

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# Productivity of Scientists and Engineers in Academic Setting

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## **Abstract:**

Based on the **UNESCO** study on the productivity of Scientists and Engineers, a similar study was carried out for academic setting in India. The data were largely collected from 5 IITs in 1980s. Both organizational and psychological variables that effect the productivity of individuals were explored based on a set of hypothesis. Statistical analysis of the data revealed interesting link between productivity and considered variables. For example, restricted freedom leads to higher productivity and visibility of consequences favors better achievements. The study concluded in prescribing a set of organizational factors that may be monitored to improve the performance of the individuals in the organization. The outcomes of study may also be useful for individual carrier growth in the organization.

## Brief Bio: -

An alumnus of 1966 of B.E.College, Shibpur, Prof. T. K. Datta completed his PhD from IIT-Bombay in 1973. He was a distinguished professor in the Department of Civil Engineering at IIT Delhi till 2014. His interests of research are in the general area of Structural Dynamics covering wide ranging fields like Earthquake Engineering, Wind Engineering, Offshore Dynamics, Structural Control and Stability of Dynamic Systems. During his teaching and research career, he guided over 45 PhDs, published over 200 journal papers and nearly equal number of papers in conferences. He is the author of the book **“Seismic Analysis of Structures” published by John Wiley International.**

He had significantly contributed to the educational development program as a chief QIP coordinator of AICTE. He also acted as a coordinator for the up-gradation of the Institute of Engineering (IOE) and significantly contributed to establishing Master and PhD research Program in Structural Engineering at IOE, Kathmandu. He had also been an active consultant to more than 200 structural engineering projects on behalf of IIT Delhi.

He is internationally well known for his work in the area of Structural Dynamics. Amongst different awards received by him, the most notable one was the **“15<sup>th</sup> Khwarizmi International Award”** for his research work in Earthquake Engineering and Structural Control. He received **two times the “Life Time Achievement Award”, one in ICSSD, 2015 and other in Structural Engineering Convention of India, 2022.** He also received **“Honor the Mentor”** recognition offered to only 12 faculty members in 50 years of existence of

**IIT Delhi in its Golden Jubilee Celebration.** He is a Fellow of the National Academy of Engineering, India. **He is still active as a teacher, researcher and consultant in the general field of structural engineering and is attached to many prestigious institutes of India.**