



# Department of Mechanical Engineering



(Centenary Year: 2021)

## Centenary Lecture Series

### Tenth Centenary Lecture

**1<sup>st</sup> March 2022; 5:30 pm**

**Topic: An Overview of Industry 4.0 and Its  
Implications for Design Led Innovation and Growth**

**Speaker: Prof. Amaresh Chakrabarti**

**Webex Link:**

**<https://iiests.webex.com/iiests/j.php?MTID=mea89cdd5c3f61e01e64d178a9e0ee6c6>**



### About the Speaker:

Prof. Amaresh Chakrabarti is a Senior Professor and current Chairman of the Centre for Product Design & Manufacturing, Indian Institute of Science (IISc), Bangalore. He obtained his Bachelor in Mechanical Engineering as topper from Bengal Engineering College, Shibpur (Calcutta University) in 1985. Subsequently, he completed his Master in Mechanical Engineering (Mechanical System Design) from IISc Bangalore in 1987. Dr. Chakrabarti obtained his Ph.D. in Engineering Design from the University of Cambridge, UK, in 1991.

He led the Design Synthesis group at the European Physical Sciences Research Council (EPSRC) Centre-of-Excellence Engineering Design Centre at the University of Cambridge for 10 years. His interests are in synthesis, creativity, sustainability, informatics and Industry 4.0. He has published 17 books and over 300 peer-reviewed articles. He also has 11 patents (granted/pending) to his credit. He co-authored Design Research Methodology, which is widely used as a framework for design research. He founded the IDeAS Lab – India's first Design Observatory.

He is the first non-American Editor-in-Chief of Artificial Intelligence for Engineering Design, Analysis and Manufacturing (AI EDAM), a 35 year old journal (Cambridge University Press). He has been an Associate Editor of AI EDAM & Design Science Journal, Area Editor of Research in Engineering Design, Regional Editor of the Journal of Re-manufacturing (Springer) and Advisory Editor for 8 Journals including Clean Technology and Environmental Policy, Materials Circular Economy (Springer), Journal of Engineering Design and International Journal of Design Creativity and Innovation (T&F). He was a Member of the Advisory Board and Board of Management, Design Society, a Member of CII National Committee for Design India, a Jury for India Design Mark and an Invitee to the CII Smart Manufacturing Council India. He is Programme Chair for International Conference Series on Research into Design, 22nd CIRP Design Conference 2012, 3rd International Conference on Design Creativity 2015 and Vice-Chair for AI in Design and Design Computing & Cognition Conferences.

He is an Honorary Fellow of the Institution of Engineering Designers, the highest honour of the peer society under the UK Royal Charter in Engineering Design, and TUM Ambassador Awardee from TU Munich, Germany. He co-initiated India's first Smart Factory R&D platform. He also heads IISc-TCS Innovation Lab, IISc Press, and the Springer International Book Series on 'Design Science and Innovation', and chairs the Smart Manufacturing Standards Sub-committee of the Bureau of Indian Standards. He received Careers360 Faculty Research Award 2018 for being the 'Most Outstanding Researcher' in Decision Sciences. He is also among the global top 1% of researchers in 'Design Practice & Management'.