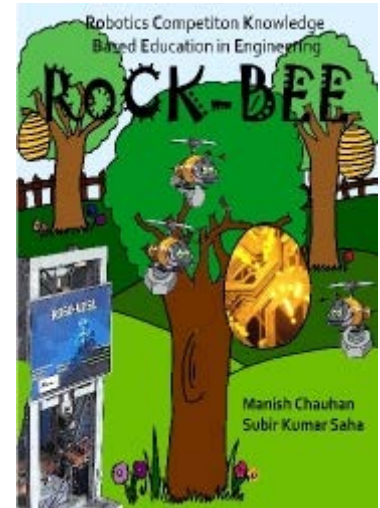


*Professor Subir Kumar Saha*  
*Naren Gupta Chair Professor and Head*  
*Department of Mechanical Engineering*  
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**R<sup>2</sup>: Robotics to Rural - Inclusive  
Education in Engineering**



**Abstract:** The presentation will first introduce the Prof. Saha's areas of research, i.e., Robotics and Multibody Dynamics. He will then introduce a concept called RoCK-BEE (Robotics Competition Knowledge-based Education in Engineering) for innovative learning and teaching methodology, mainly, to the undergraduate students. Later, it will be shown that how the knowledge of robotics can be applied/extended for the design optimization of many devices and processes used by the rural people of India or the World, e.g., a carpet loom or a machine to clean it. This aspect is pursued by Prof. Saha under the banner called MuDRA or Multibody Dynamics for Rural Applications.



**Bio:** Prof. Subir Kumar Saha is the Naren Gupta Chair Professor and Head for the Department of Mechanical Engineering at IIT Delhi (IITD). He also leads the Government of India supported Rural Technology Action Group (RuTAG, [rutag.iitd.ac.in](http://rutag.iitd.ac.in)) at IITD. Prof. Saha's two special interests are 1) Robotics and Multibody Dynamics, especially through Multibody Dynamics for Rural Applications (MuDRA) and his book on Multibody Systems, and 2) Robotic Competition Based Education in Engineering (RoCK-BEE), an innovative teaching method and book ([pothi.com](http://pothi.com)).

Prof. Subir Kumar Saha, a 1983 mechanical engineering graduate from the RE College (Now NIT), Durgapur, India, completed his M. Tech from IIT Kharagpur, India, and Ph. D from McGill University, Canada. Upon completion of his Ph. D, he joined Toshiba Corporation's R&D Center in Japan.

After 4-years of work experience in Japan, he has been with IIT Delhi since 1996. He has more than 175 research publications in reputed journals/conference proceedings, several books, and more than 150 invited/keynote lectures in India and abroad.

*Refreshments will be served*