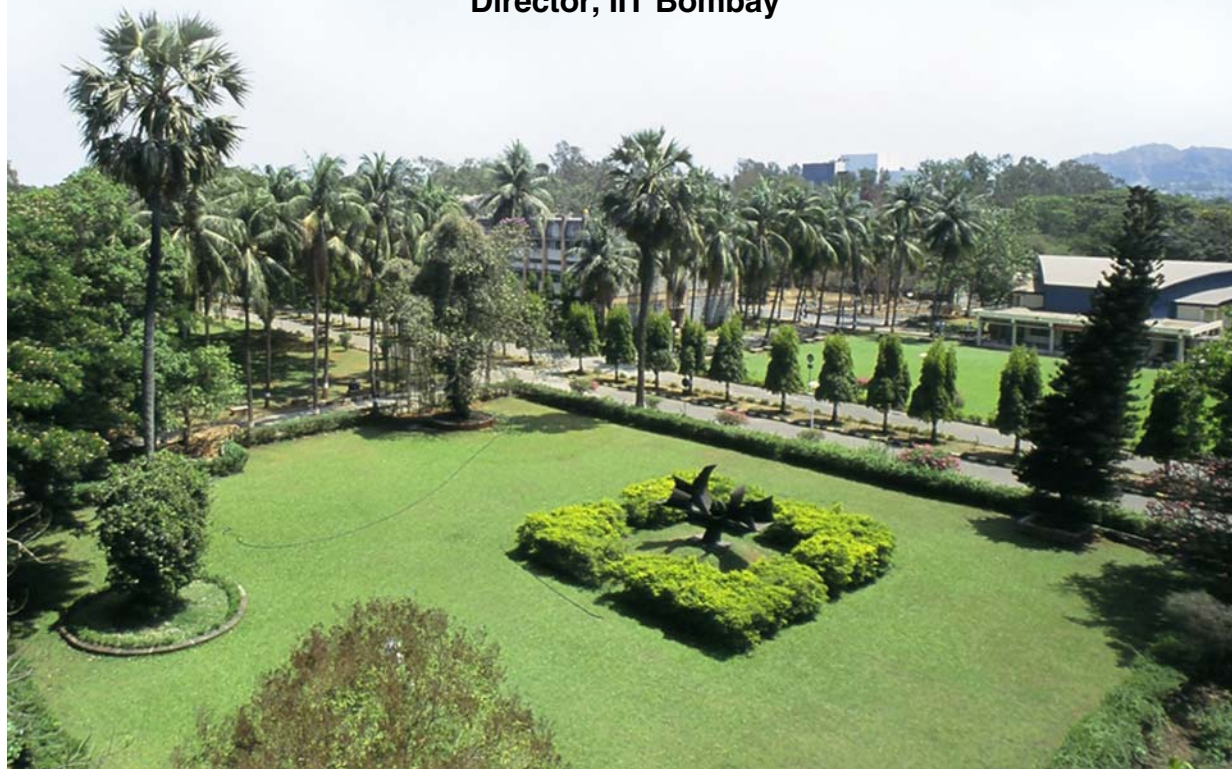


# 51<sup>st</sup> दीक्षांत समारोह 2013 CONVOCATION 2013

**Conferment of Degree of  
Doctor of Science (*Honoris Causa*)  
by IIT Bombay  
on Prof. Ashoke Sen**

**Citation read by  
Prof. Devang V. Khakhar  
Director, IIT Bombay**



**Mr. Chairman,**

On the recommendation of the Senate and the Board of Governors and upon the approval of the Visitor of the Indian Institute of Technology Bombay, I present Prof. Ashoke Sen for the conferment of the degree of Doctor of Science (*Honoris Causa*).

Prof. Ashoke Sen is one of the most distinguished theoretical physicists today and is a Professor at the Harishchandra Research Institute (HRI), Allahabad. He is a pioneer in the field of Superstring theory for which he was awarded the inaugural Fundamental Physics Prize last year.

Prof. Sen has always worked on problems which are at the frontiers of theoretical physics. His initial research, done as a Ph.D. student at the State University of New York, Stonybrook, was in the then newly established theory of Quantum Chromodynamics. Soon after his Ph.D., his research shifted to Superstring theory, which attempts to unify all fundamental forces in a single theory. His contributions over the past two decades have advanced and shaped the subject. His demonstration of a duality relation between strong and weakly coupled theories helped establish that several string theories are different manifestations of one underlying theory. His formulation of unstable D-branes has influenced work on cosmology. His recent work on black holes developed the mathematical techniques needed to settle some long-standing fundamental questions of quantum physics and gravitation. His work has resulted in the recognition of the String theory group at HRI among the most prominent groups in the world.

Prof. Sen obtained his B.Sc. from Calcutta University and his M.Sc. from IIT Kanpur. He is a recipient of a number of national and international awards. Among them are the Shanti Swarup Bhatnagar prize in 1994, the Infosys prize in 2009. He is a Fellow of the Indian National Science Academy and a Fellow of the Royal Society. He was conferred the Padmabhushan by the President of India this year.

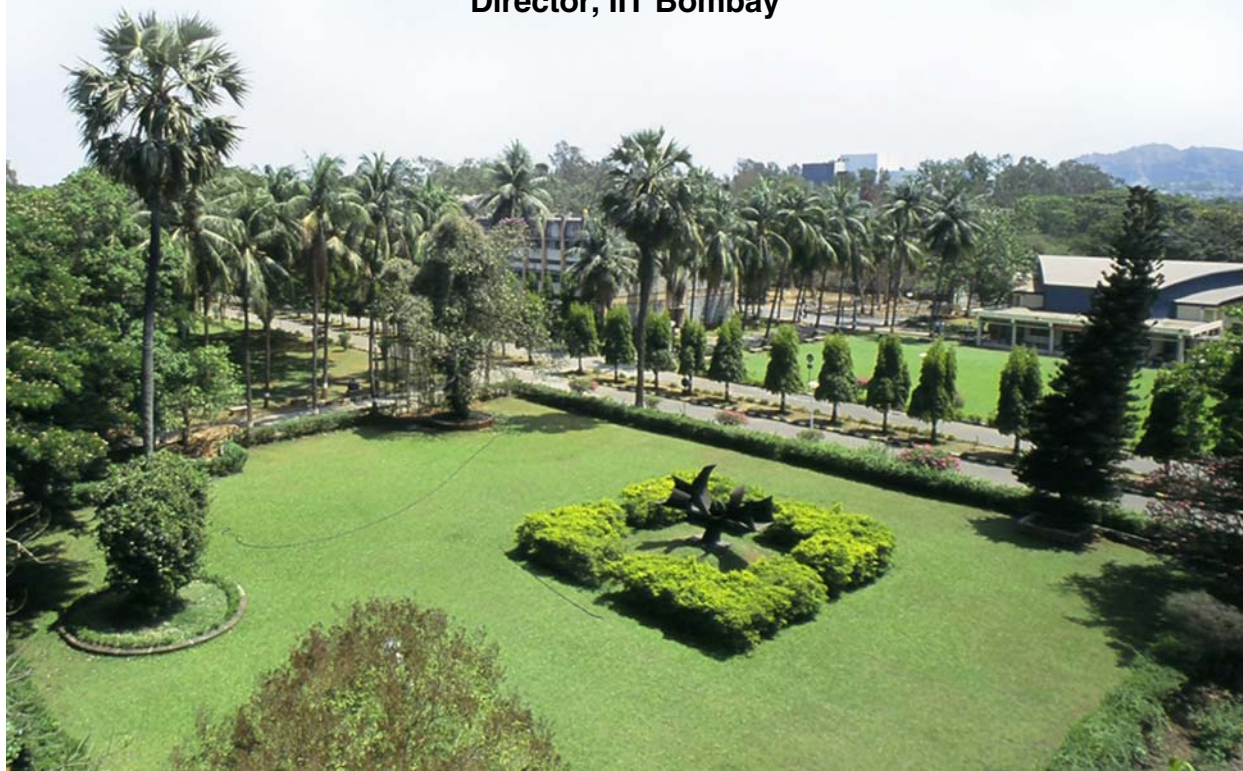
I now request you to confer the degree of **Doctor of Science (*Honoris Causa*) on Prof. Ashoke Sen.**



# 51<sup>st</sup> दीक्षांत समारोह 2013 CONVOCATION 2013

**Conferment of Degree of  
Doctor of Literature (*Honoris Causa*)  
by IIT Bombay  
on Prof. Kaushik Basu**

**Citation read by  
Prof. Devang V. Khakhar  
Director, IIT Bombay**



भारतीय प्रौद्योगिकी संस्थान मुंबई  
Indian Institute of Technology Bombay

शनिवार, 10 अगस्त, 2013  
Saturday, 10<sup>th</sup> August 2013

**Mr. Chairman,**

On the recommendation of the Senate and the Board of Governors and upon the approval of the Visitor of the Indian Institute of Technology Bombay, I present Prof. Kaushik Basu for the conferment of the degree of Doctor of Literature (*Honoris Causa*).

Prof. Basu is currently Professor of Economics and Carl Marks Professor of International Studies, Department of Economics at the Cornell University. In addition, he is also the Senior Vice President and Chief Economist of the World Bank. From 2009 to 2012, Prof. Basu was the Chief Economic Adviser to the Government of India in the Ministry of Finance and provided able advice during the global financial crisis of 2008. Prof. Basu has taught at the Kennedy School of Harvard University, London School of Economics, MIT, Princeton University, Stockholm University and Delhi School of Economics.

Prof. Basu is a theoretical economist of international repute. His seminal articles have been widely cited and highly referred to in the academic profession. Prof. Basu has written extensively on diverse fields of economics and, more generally, the social sciences. His outstanding capacity as a theoretician and policy maker sweeps a vast canvas, from recession and global economic crisis, foreign policy and financial scams, to theorizing bribery and control of corruption, to art and aesthetics. His contribution to education in India has been significant as he is the Founder and First Executive Director of the Centre for Development Economics, Delhi School of Economics, Delhi University. The centre which he established with a mere Rs. 25 million endowment grant from the Ministry of Finance, Government of India, has grown very big and supports excellence in research. Prof. Basu believes in the principle that *inequality should be controlled as long as it does not make poverty worse* (Basu, 2006).

Prof. Basu is a graduate in Economics from the St. Stephen's College, Delhi University. Subsequently, he did his M.Sc. in Economics from the London School of Economics followed by his Ph.D. in Economics from the London School of Economics under the supervision of none other than the Nobel Laureate Prof. Amartya Sen. Prof. Basu has been recognized by a number of awards including the National Mahalanobis Memorial Medal, 1989; UGC-Prabhavananda Award for Economics, 1990. Prof. Basu was awarded the Padma Bhushan in 2008 by the President of India.

I now request you to confer the degree of **Doctor of Literature (*Honoris Causa*) on Prof. Kaushik Basu.**