

# Productive Efficiency: Theory and Practice

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## Overview

Productivity and efficiency have been an emerging area of research in the latter half of 20<sup>th</sup> century. The measurement issues on efficiency models require in-depth knowledge on various efficiency measurement tools, which are based on econometric and mathematical models. In this workshop, the Stochastic Frontier Analysis (SFA) and Data Envelopment Analysis (DEA) will be analysed as an extension of the classical micro economic theory of production, cost, revenue and profit at the individual producer level. The SFA and DEA models are applied as efficiency measurement tools in a spectrum of areas such as agriculture sector, manufacturing, transport, industry, banking, medical, port, mining sectors, etc. In this course, major extension of the models will be analysed to provide scope for cross firm heterogeneity as well as unobserved heterogeneity. Moreover, advanced applications such as Bayesian and Classical methods of estimation, panel models are the important aspect of this course. In addition to theoretical models, several applications from the recent literature will be undertaken during the course by the experts invited from reputed institutes.

<b>Modules</b>	<b>A: Foundation of Productivity and Efficiency Theory</b> <b>B: Measurement Issues and Recent Development of Productive Efficiency Theory</b>  <i>Dates: 30<sup>th</sup> May—8<sup>th</sup> June, 2016. Venue: IIT Bhubaneswar</i> <i>Deadline for Registration: 25<sup>th</sup> May, 2016.</i> <b>Limited number of seats are available for the workshop.</b>
<b>You Should Attend If...</b>	<ul style="list-style-type: none"><li>▪ You are a Faculty of Economics/Econometrics/Management/Commerce/Statistics/Mathematics in India or Abroad</li><li>▪ You are a Corporate Professional Working at any Private or Public Organization/Banking /Industrial Sector</li><li>▪ You are a Student/Research Scholar/Post-doc Candidate/ Research Associate working at any University/College/Institution of India or Abroad in the area of Economics/ Econometrics/ Management/ Commerce/ Statistics/Mathematics.</li><li>▪ You are an Economist at any reputed institution of India or abroad.</li></ul>
<b>Fees and Registration</b>	The participation fees for taking the course is as follows:  <b>Participants from abroad : US \$500</b> <b>Industry/ Research Organizations/ Banking Professionals: Rs. 7500/-</b>  <b>Teachers : Rs. 5000/-</b> <b>Students/Research Scholar : All modules : Rs. 1500/-</b>  <b>The above fees include all instructional materials, computer use for tutorials and internet facility at the host institute during the course. The participants will have to take care of their travel, accommodation and food. However, accommodation can be arranged for a few participants on first-cum-first-serve basis strictly against payment.</b>  <b>Limited number of travel grants (III AC train fare) are available. For any queries regarding registration or other practical information, please contact the course coordinator.</b> <b>Participants can register for the course on the link below:</b> <a href="http://www.gian.iitkgp.ac.in/GREGN/index">http://www.gian.iitkgp.ac.in/GREGN/index</a>

## The Faculty



**Prof. Kaliappa Kalirajan** is an applied economist and policy analyst, presently working as a professor at Crawford School, Australian National University, Australia. His work on the stochastic frontier production function methodology has given him

international recognition. He has many research publications in these areas in reputed academic and policy-oriented journals. He received a special commendation award from the Indian Econometric Society for his outstanding work in frontier production function in December 1994. He has authored and edited a dozen books published by reputed international publishers.



**Prof B K Sahoo** is a professor of Economics at XIM, Bhubaneswar. After receiving his PhD in Economics from IIT Kharagpur. Prof Sahoo had taught at various institute of international repute. He was a JSPS

Fellow (GRIPS, Tokyo, Japan), Lise Meitner Fellow (WU-Wien, Austria) -Wien, Austria) and his teaching interest includes Microeconomic Theory and Economics of Benchmarking. Prof. Sahoo has contributed in the area of Applied Production Frontier Analysis, Efficiency and Productivity Analysis and Data Envelopment Analysis (DEA). His scholarly contributions in these areas are published in reputed international journals. He is a member of editorial board to several international journals.



**Dr. Naresh Chandra Sahu** is the Head of the School of HSS & M, IIT Bhubaneswar. After receiving his PhD in Economics from IIT Kanpur, he had taught at many reputed institutes of India. His research

interest mostly includes natural resources management, climate change, mineral economics, poverty and migration. He has published research papers in many international and reputed journals.

## Course Co-ordinator

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