

### About Prof. Paresh Kumar Narayan

Prof. Paresh Kumar Narayan is an Alfred Deakin Professor at the Deakin Business School. In 2007, he was appointed as the youngest Chair (Professor) in Finance by Deakin University at the age of 30 years. He is the Director of the Centre for Economics & Financial Econometrics Research at Deakin



University. Professor Narayan is a co-Editor-in-Chief of *Economic Modelling*, Associate Editor of *Finance Research Letters* and *Studies in Economics & Finance*, Subject Editor of *Journal of International Financial Markets Institutions and Money*, and Guest Editor of the *Journal of Banking & Finance* and *Energy Economics*.

Professor Narayan has published extensively in financial econometrics and applied finance, covering topics such as forecasting, trading strategies, and the performance of financial markets. He has published around 260 papers in international refereed journals with over 75% of his papers appearing in social science citation impact factor journals. Based on the Australia Business Deans Council (ABDC) journal rankings, Professor Narayan has published 25 papers in A-star journals and 120 papers in A-ranked impact factor journals. He is ranked amongst the top-1% of the authors in Australia and amongst the top-15 Young Economists in the World by Research Papers in Economics ([www.repec.com](http://www.repec.com)). Google Scholar counts the citation of Professor Narayan's work at over 9,000 citations, with an h-index=44, and an i10 index=146. In 2014, Professor Narayan received the Scopus Young Researcher award for the best 3 authors in Australia in the Social Science category under the age of 40. In 2015, Professor Narayan was awarded the Mahatma Gandhi Pravasi Samman Award for non-resident Indians who have made substantial contributions to the profession, including contributions to public policy. And, in 2015 he also received the Mahalanobis Memorial Medal (International) award by the Indian Econometric Society—a gold medal and citation awarded to someone from around the world who is under the age of 45 and has made a substantial contribution to quantitative economics.

Professor Narayan has been a consultant to a number of esteemed institutions, such as the Asian Development Bank, the United Nations, the Commonwealth Secretariat, the International labour organization, and the AusAID, amongst others.

Prof. Narayan can be contacted by email on [narayan@deakin.edu.au](mailto:narayan@deakin.edu.au)

### About IIT Hyderabad

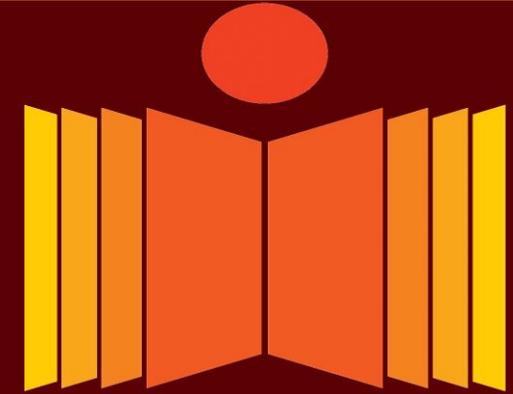
Inventions and innovations are key words on which the foundation of IITH is based. One of India's eight new IITs – IITH started functioning in August 2008. Currently it has 1485 students in total and offers undergraduate programs in eight disciplines, M.Sc in Physics, Chemistry and Mathematics, M.Tech in eight disciplines, M.Phil. in Liberal Arts and PhD in thirteen disciplines.

The first faculty at IITH joined in 2009 and as of today IITH has 165 faculty members. In a short span of five years, IITH has developed state-of-the-art infrastructure for advanced research and produced more than 400 publications in internationally reputed journals.

Research is a culture among the faculty and students of IITH. This is evident from the several research projects that are ongoing at IITH. On top of the gamut of sponsored projects from various funding agencies, IITH has active collaboration with industry as well. IITH also has an innovative academic program where the students are offered fractional credits and the first semester undergraduates are allowed to do a project of their choice. Many more innovations in the academic front are in the offing. IITH always strives to offer an innovative environment where one is not afraid to experiment with high-risk ideas.  
[Http://www.iith.ac.in/](http://www.iith.ac.in/)

**For details please contact:  
Dr. Badri Narayan Rath  
Coordinator – GIAN course on AFM**

INDIAN INSTITUTE OF TECHNOLOGY  
HYDERABAD  
Kandi, Sangareddy (M), Medak District –  
502285 Hyderabad, Telangana  
**Phone: +91-40-23016052; Email:  
[badri@iith.ac.in](mailto:badri@iith.ac.in)**



**INDIAN INSTITUTE OF  
TECHNOLOGY HYDERABAD**

**GIAN  
Programme On  
Applied Financial Modelling  
8<sup>th</sup> July – 12<sup>th</sup> July  
2016**





### About Dr. Badri Narayan Rath

Dr. Badri Narayan Rath is an Associate Professor and Head, Department of Liberal Arts, Indian Institute of Technology Hyderabad. Prior to joining IIT Hyderabad, he was a Fellow at Indian Council for Research on International Economic Relations (ICRIER), New Delhi and Economist at National Council of Applied Economic Research (NCAER), New Delhi. He was the

recipient of Ph.D. Intern Fellowship at World Institute of Development Economics Research (UNU-WIDER), Helsinki, Finland and best paper award in economics from Indian Institute of Sciences (IISc), Bangalore. Dr. Rath's research expertise is on Econometric Modeling, Economic Growth, Productivity Analysis and International Economics. He has authored several papers in leading economics journals include few such as Energy Economics, Economic Modeling, Emerging Markets Review and Empirical Economics.

### Overview

Financial modelling is an important tool for academics, government policy makers, and the business/corporate sector. Financial modelling allows an analysis of different types of data. Being able to analyse financial data is important in understanding (a) the performance of financial and capital markets and (b) make financial investment decisions. The recent global financial crisis and the most recent volatility of the Chinese market are examples of stock market performance that demand data analysis. On the other hand, financial investment decisions as well as the national economy's budgetary allocations (commonly known as the national budget) depend on data analysis too, in particular on forecasts of the macro -economy (such as inflation and gross domestic product) and the financial market. For example, investors (in order to make investment decisions—such as choice of portfolio) need forecasts for future stock market performance. Such forecasts also allow for investors and policy makers to devise risk management policies. This course is about providing a broad overview of the importance of relevance of financial modelling to policymakers and investors.

### Objectives

This course is designed to provide knowledge of applying statistical tools for evaluating and understanding data (both high frequency—such as daily data—and low frequency—such as annual data) and their implications for the performance of the economy and the financial markets. Data applications for this course will be based on India. Participants will gain first-hand knowledge of how to use statistical software(s) to test different economic and financial models—models that are at the forefront of public policy debate in India. Participants will also learn how to use data to forecast future state of the economy and financial markets. Participants will learn how investors devise trading strategies with respect to forecasted stock market returns.

### Course Outline

- Introduction to Financial Econometrics
- Introduction to Regression Models
- Multicollinearity and Heteroscedasticity
- Autocorrelation and Endogeneity
- Introduction to Time-series Analysis
- Volatility Models
- Testing Financial Models Forecasting Trading Strategies

**Evaluation and Grading:** A total of 15 hours will be devoted to teaching this course. Of this, there will be a daily 2-hours lecture and 1-hour lab tutorial. The lectures will introduce the key issues both theoretically and empirically and the lab exercise, based on the EVIEWS software, will undertake real data-based applications building on the lecture material. The grade will be assigned based on class interaction and hands-on exercise in EVIEWS software. The certificate will be issued to all the participants upon the completion of the course.

**Course Material and References:** A list of reading references will be provided on each topic. Participants would be expected to read this materials before attending classes. A summary of the lecture notes will be provided to participants.

**For Whom:** The course is designed for students, early career faculty members in social sciences (economics, finance, management, marketing and tourism) applied researchers, financial professionals, financial market analysts, business executives and managers, and policy makers working on financial markets. Some knowledge in financial economics and basic econometrics will be an advantage, but these are not essential. The maximum number of participants for the course shall be limited to 50.

### Important Dates

Last date for receiving applications: 31 May 2016  
 Decision of applications: 10 June 2016  
 Course dates: 8-12 July 2016

### Registration Fees\*\*

- For students\* Rs. 1000
- For participants from academic institution Rs. 5000
- For participants from Industry Rs. 8000
- Participants from abroad USD 500

\*ID proof to be submitted

\*\*The registration fee includes access to attend all the lecture / tutorials and reading materials in a CD.

An additional fee of Rs.2000/- has to be paid for providing mineral water bottles/lunch/2 coffee/tea with snacks on all five days. The accommodation is to be met by participants. There are number of hotels available nearby IIT Hyderabad. Limited accommodation on payment basis will be provided on a first cum first serve basis in the IITH hostels.

All the payments should be made in the form of Demand Draft and to be paid in favour of the Registrar IIT Hyderabad.

### The DD together with registration form should be sent to:

Dr. Badri Narayan Rath  
Coordinator – GIAN course on Applied Financial Modelling  
Dept. of Liberal Arts  
Indian Institute of Technology Hyderabad  
Kandi, Sangareddy (M), Medak District-502285, Hyderabad, Telangana, India