



AN INTRODUCTION TO

# ECONOMETRICS

- Mrs. Nandini Jagannarayan
- Dr. T.A. Jayachitra



Himalaya Publishing House

ISO 9001:2015 CERTIFIED

Certified as  
TRUE COPY

Principal  
Ramniranjan Jhunjhunwala College,  
Ghatkopar (W), Mumbai-400086.

# AN INTRODUCTION TO ECONOMETRICS

**Mrs. Nandini Jagannarayan**

Associate Professor,  
Department of B.Com.(Banking & Insurance),  
R.J. College of Arts, Science & Commerce,  
Ghatkopar (W), Mumbai - 86.

**Dr. T. A. Jayachitra**

Assistant Professor,  
Department of Economics,  
Avinashilingam Institute for Home Science  
for Women,  
Coimbatore, Tamil Nadu - 43.

Certified as  
**TRUE COPY**



*[Signature]*  
**Principal**

Ramniranjan Jhunjhunwala College,  
Ghatkopar (W), Mumbai-400086.

**Himalaya Publishing House**

ISO 9001: 2015 CERTIFIED

© **Authors**

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording and/or otherwise without the prior written permission of the publisher.

**First Edition : 2023**

- 
- Published by** : Mrs. Meena Pandey  
for **HIMALAYA PUBLISHING HOUSE PVT. LTD.**,  
"Ramdoot", Dr. Bhalerao Marg, Girgaon, Mumbai - 400 004.  
**Phone:** 022-23860170, 23863863; **Fax:** 022-23877178  
**E-mail:** himpub@bharatmail.co.in; **Website:** www.himpub.com
- Branch Offices** :
- New Delhi** : "Pooja Apartments", 4-B, Murari Lal Street, Ansari Road, Darya Ganj,  
New Delhi - 110 002. **Phone:** 011-23270392, 23278631; **Fax:** 011-2325621
- Nagpur** : Kundanlal Chandak Industrial Estate, Ghat Road, Nagpur - 440 018.  
**Phone:** 0712-2721215, 2721216
- Bengaluru** : Plot No. 91-33, 2nd Main Road, Seshadripuram, Behind Nataraja Theatre  
Bengaluru - 560 020. **Phone:** 080-41138821; **Mobile:** 09379847017, 0937
- Hyderabad** : No. 3-4-184, Lingampally, Besides Raghavendra Swamy Matham, Kachiguda  
Hyderabad - 500 027. **Phone:** 040-27560041, 27550139
- Chennai** : No. 34/44, Motilal Street, T. Nagar, Chennai - 600 017. **Mobile:** 09380461
- Pune** : "Laksha" Apartment, First Floor, No. 527, Mehunpura,  
Shaniwarpeth (Near Prabhat Theatre), Pune - 411 030.  
**Phone:** 020-24496323, 24496333; **Mobile:** 09370579333
- Cuttack** : Plot No 5F-755/4, Sector-9, CDA Market Nagar, Cuttack - 753 014,  
Odisha. **Mobile:** 09338746007
- Kolkata** : 3, S.M. Bose Road, Near Gate No. 5, Agarpara Railway Station, North  
West Bengal - 700109. **Mobile:** 09674536325
- Anjali Bera** : Anjali Bera

**Certified as  
TRUE COPY**

**Kolkata  
Principal**

**Ramniranjan Jhunjhunwala College,  
Ghatkopar (W), Mumbai-400086.**

## ABOUT THE BOOK

This book is an earnest attempt by the authors to present the subject of econometrics in a lucid way. The authors have made organized the book's presentation around the type of data being analysed with a systematic approach that only introduces assumptions as they are needed. This makes the contents easier for the readers to understand and, ultimately, leads to better econometric practices. Packed with relevant applications, the text incorporates more than 100 data sets in different formats. Updates and introduces the latest developments in the field, including the recent advances in the so-called "causal effects or treatment effects," to provide a complete understanding of the impact and importance of econometrics today. The authors have also included solved examples and multiple choice questions to help readers evaluate their understanding of the concepts.

## ABOUT THE AUTHORS

**Prof. (Mrs.) Nandini Jagannarayan** holds to her credit M.Phil. (Commerce), Master of Applied Finance (MAF) from University of Western Sydney, Australia and Masters in Economics with second distinction in University from Avinashilingam University Coimbatore, Tamilnadu. Currently, working as Associate Professor, Head of the Department of B.Com. (Banking and Insurance) of the R.J. College of Arts, Science and Commerce Ghatkopar, Mumbai. She has extensive training and experience in Banking, Finance and Investments from India and abroad. Mrs. Nandini Jagannarayan co-authored 12 books Finance with Dr. Gopalakrishnan. She has presented 13 research papers in various national and international level conferences and has published 8 research papers.

**Dr. T.A. Jayachitra** is currently working as Assistant Professor in the Department Economics with Avinashilingam Institute for Home Science for Women, Coimbatore. She holds her Ph.D. in the area of Banking and Finance. Her major areas of interest in research, has participated in various national and international level conferences. With her expertise in econometrics, she has published over 15 research papers in various national and internationally published journals. She is a recipient of ICSSR scholarship for her research activity.

Certified as  
TRUE COPY

[www.himpub.com](http://www.himpub.com)

  
Principal  
Ramniranjan Jhunjhunwala College,  
Ghatkopar (W), Mumbai-400086. 9 789356

ISBN: 978-93-5



ISBN: 978-93-5693-357-6

PEI 0094