

Payal Malik

Senior Consultant Economist, Competition Law, Public Policy and Economic Regulation

Formerly Advisor (Economics) & Chief Economist Competition Commission of India

Currently Associate Professor of Economics, University of Delhi

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Education

- June 1996 Master of Business Administration (Finance)
University of Cincinnati, Cincinnati, OH, USA
- June 1994 Master of Philosophy (Economics)
Delhi School of Economics, University of Delhi, Delhi
- July 1990 Master of Arts (Economics)
Delhi School of Economics, University of Delhi, Delhi
- July 1988 Bachelor of Arts (Economics and Mathematics)
Lady Shriram College, University of Delhi, Delhi

Work Experience: Competition Commission of India

March 2012--- July 2015 **Advisor Economics and Head, Economics, Division**, Competition Commission of India. Job of an Economic Advisor at the Commission requires leading the economics division for:

- Ensuring cohesive and systematic integration of economic analysis into the enforcement of the Competition Act, 2002
- Developing conceptual frameworks and toolkits for handling range of economic issues that arise in the cases pertaining to Section 3, 4 and 5 of the Act
- Providing economic analysis of antitrust and merger cases
- Advising the Commission on competition policy across all sectors of the Indian Economy
- Interface with various arms of the Government and other sectoral regulators for policy related matters and their impact on competition

Work Experience: University

- April 07 till date Associate Professor, Economics, University of Delhi, Teach Micro Economics Theory on Deputation (secondment) to the Competition Commission of India from March 2012 till July 2015.
- 1997---2007 Senior Assistant Professor (Reader) Economics, University of Delhi
- August 90---97 Lecturer of Economics, University of Delhi
- October- November, 2015: Taught a course on Economics of Competition Law to the first batch of LLM students at NLUD Delhi; Visiting Professor

Work Experience: Policy Research/Consultancy and Practice

Area of interest Privatization, Competition and Regulation of Infrastructure/Network Industries; Technology policy; Competition policy/Antitrust litigation; ICTs and

innovation systems

Invited as a Resource Person specializing in the above fields to various national and international forums and universities

Independent Positions/Affiliations

- January 2016 onwards *Senior External Advisor*, Nathan Associate, India, a US based economic consultancy firm, specializing in litigation economics
- September 04 onwards *Senior Research Fellow*, LIRNEasia, Sri Lanka, research focus ICTs
- October 08 till November 2010 *Advisor*, Centre for Analysis of Policy and Competition, Indicus Analytics
- 2002 till 2012 *Senior Consultant*, Center for Infrastructure and Regulation, National Council of Applied Economic Research (NCAER), India
- July 97 till June 02 *Consultant*, NCAER, Industry and Infrastructure Division
- June 04 till September 06 *Consultant*, Water and Sanitation Programme-SA, World Bank, New Delhi

Other Positions

Board Member, CPRsouth. **CPRsouth** is a capacity building initiative to develop Asia---Pacific based policy intellectuals on ICT policy regulation among junior to mid level scholars

Columnist, Financial Express of India and other national and business dailies

Member of the International Telecommunications Society, ITS

Member of the Project Advisory Committee, CUTS International, Jaipur India

Referee Journal of Information Technologies and International Development (ITID)

Referee Telecommunications Policy, Journal, Elsevier

Selected Research Projects

- Advisor, Ford LIRNEasia, Capacity Building Project, **How to engage in broadband policy and regulatory processes, Subsidy Policies**
- Advisor and Principal Researcher, **Customer relationship management practices in the telecom sector in India**, LIRNEasia, Sri Lanka, Sponsor: IDRC and DFID
- Advisor and Principal Researcher, **Seeking Efficiency and Excellence in the Implementation of Infrastructure Projects in India**, NCAER, New Delhi
- Advisor **Knowledge Based Economies and role of ICTs in Agriculture Value chains**, LIRNEasia, Sri Lanka, Sponsor: IDRC and DFID
- Advisor and Principal Researcher, **Implementation issues in Infrastructure: Roads and Power**, NCAER
- Advisor and Principal Researcher, **Strategies for India's Infrastructure Development: Telecom** NCAER
- Advisor and Principal Researcher, **Model IPR regime for Music on FM**, Indicus Analytics, Sponsor: Ministry of Information and Broadcasting, Gol

- Advisor and Principal Researcher, **Statistical Compilation of ICT Statistics in India and Policy Analysis**, Sponsor: Orbicom, University of Quebec at Montreal, Canada, working in association with the Ministry of Statistics and Programme Implementation (MoSPI)
- Principal Researcher, **Quality of regulation: An analytical case study approach Indian electricity and Petroleum & Natural Gas industries**, Sponsor: CUTS, Jaipur India
- Principal Researcher, **An Evaluation of Different Models for the Issuance of Licenses for Service Provision and Frequencies**, LIRNEasia, Sri Lanka, Sponsor: IDRC and DFID
- Project Advisor, **A Study on Competition in mainframes and associated services in India**, Indicus Analytics, Sponsor: Openmainframe.org
- Project Advisor, **ICT Sector in India R and D and innovation systems and its globalization**, Sponsor: Joint European Research Centre, IPTS, Seville, Spain
- Project Advisor and Principal Researcher, **Total Cost of Ownership of Mobile: Lessons from four South Asian Countries**, Connectasia Singapore, Sponsor: Nokia, Finland
- Project Advisor and Principal Researcher, **Study on State of Competition in the Indian Steel and Petroleum Industry**, Indicus Analytics, Sponsor: Competition Commission of India
- Principal Researcher, **Private Sector Participation in the Indian Power Sector and Climate Change; gauging the efficiency improvements in generation, transmission and distribution and impact on GHGs**, NCAER, Sponsor: AFD Paris and Propraco
- Lead Researcher for the country report on India for a **Six country multi---component study on Telecom: Performance Indicators, Reform and Regulation**, LIRNEasia
- Principal Researcher, **Documenting Capabilities for Measuring ICT in India**, Sponsor: OECD, Paris
- Principal Researcher, **An Analytical Review of Incentive Regulation of Power Utilities: Review of five State Electricity Regulatory Commissions**, WSP---SA, World Bank, New Delhi.
- Project Leader, India, for a study on **PPPs in Infrastructures in India: Capacity, Regulatory and Financial Issues**, EU-India Economic Cross Cultural Programme, **Associated with IDEI, University of Toulouse, France and CEPR**
- Principal Researcher for a sub---project, Regulation in telecom markets, NCAER, for the EU-India Economic Cross Cultural Programme project titled: **Efficiency, Equity and Access in Indian Infrastructure: Blending Competition and Regulation. Associated with IDEI, University of Toulouse, France.**
- Principal Researcher, **Institutional Restructuring of Urban Water Supply and Sanitation Utilities**, (project covered all aspects related to urban water supply like privatization, decentralization, PPPs, regulation, universal service and tariff structures)WSP-SA, World Bank, New Delhi.
- Principal Researcher, **Diversifying Network Participation: India's Universal Service Obligation in telecom**, LIRNEasia, Sri Lanka
- Lead Researcher, **Stimulating investment in /Network development: Roles for telecom regulators**, WDR, LIRNE.Net, Denmark.
- Lead Researcher, **Lessons from India's Power Sector Reforms** for Urban Water and Sanitation Sector Reforms, WSP- SA, World Bank, New Delhi
- Consultant to the **Expert Group on Power Sector Reforms in Punjab**, Govt. of Punjab
- Team Leader **of the Power Sector Report on Options for Introducing a More Competitive Market Structure in India's Power Sector**, NCAER

- Team member for the preparation of the draft of the **Electricity Bill 2001**, NCAER, Sponsor: Ministry of Power, GoI
- Project Leader for **Demand projections for fixed telephone services in 2010**, NCAER, Sponsor: Telecom Regulatory Authority of India
- Project Leader for **Affordability of Telecommunication Services**, NCAER, Sponsor: Telecom Regulatory Authority of India, World-Bank aided Telecommunications Sector Reforms Technical Assistance Project
- Project Leader for NCAER-SEBI **Research Program on Capital Markets**, NCAER, Sponsor: Securities and Exchange Board of India
- Team member of **Reform and restructuring of thirteen state level public enterprises**, NCAER, Sponsor: Comptroller and Auditor General of India

Other Projects

I have also worked on education and health related projects. These projects were studies conducted for the World Bank. The projects involved the **analysis of large databases (NSS and NFHS)** on **education and reproductive health** outcomes in addition to conducting exhaustive literature surveys. In addition to this my other areas of research interest are Higher education and climate change.

Selected List of Professional Publications

- **Competition Law in India: Developing efficient markets for Greater Good**, forthcoming in Vikalpa, The Journal for Decision Makers, IIM Ahmedabad and Sage Publications
- **Information and communications technology sector in India** with P Vigneswara Ilavasaran, in *“Asia in the Global ICT Innovation Network: Dancing with the tigers “* edited by Giuditta de Prato, Daniel Nepelski, Jean Paul Simon, Woodhead Publishing Limited, U.K. May 2013
- **Building Infrastructure in India: Highways**, An issue paper, NCAER, New Delhi, December 2010
- **Building Infrastructure in India: Power**, An issue paper, NCAER, New Delhi, December 2010
- **Private Sector Participation in the Indian Power Sector and Climate Change**, Agence Française de Développement, France, Paris, Working Paper, No. 99, August 2010
- **Infrastructure Development in India, An assessment of Status and Strategies for the Telecom Sector**, A Report published by National Council of Applied Economic Research, February 2010
- **Documenting capabilities for measuring ICT in India**: A position paper, WPIIS, OECD, DSTI/ICCP/IIS(2007)2, May 2007
- **Telecom growth in poor regulatory environments**: A comparative analysis of Indonesia and India in Proceedings of the International Association for Media and Communication Research (IAMCR) conference, Paris, July 2007
- **LIRNEasia Six Country Study 2006-2007**: India Report, World Dialogue on Regulation Discussion Paper 0703. http://www.lirneasia.net/2007/04/6countrymulticomponentstudy_inphth/
- **Regulation of the Indian Power Sector**: Lessons from the Experience, in Oxford Companion to the Indian Economy, Kaushik Basu ed., Oxford University Press, 2007
- **India's Universal Service in Telecom in ICT Infrastructures in Emerging Asia**: Policy and Regulatory Roadblocks, Samarajiva, R. and A. Zainudeen, eds., New Delhi: Sage India, 2007
- **Indian Telecommunications**: Issues in Competition and Regulation(2006), Working Paper,

NCAER, New Delhi

- **Role of Competition in the diffusion of Broadband Telecommunications**, Connexions, NCAER---EU, Newsletter, 2006
- **Design of Power Markets:** Different market structures and proposed options for India, Margin, July---September, 2004, NCAER.
- **Compliance Costs of Financial Regulation:** Indian Mutual Funds Industry, H.T. Parekh Finance Column, Economic and Political Weekly, July10, 2004.
- **Regulation and Investment:** Case Study of Indian Telecommunications Sector, in *Report on the World Dialogue on Regulation Stimulating Investment in Network Development: Roles for Regulators*, Case studies and research from WDR Research Cycle 2, Mahan, A. and Melody, W. (eds.)
- **Indian Telecommunications Policy and Regulation:** Impact on Investment and Market Structure, World Dialogue on Regulation, 2003, Infodev, Global Information and Technologies Department, World Bank.
- **THE ELECTRICITY BILL, 2003: Competition in India's Power Sector:** Virtual or Real? MacroTrack, NCAER, May 2003
- **The medium need not be the message!, Background paper for DFID sponsored International Conference on Options for Introducing a More Competitive Market Structure in India's Power Sector,** October 28---29, 2002
- **Measuring the Costs of SEBI Regulations: Compliance Cost for the Mutual Funds Industry in India.** NCAER, January 2002, Accepted for presentation at the Fifth Annual Money and Finance Conference.

Publications in the Press

- **Regulating the Digital Economy**, Financial Express, December 4, 2015
- **A 'chota recharge' model for the internet**, with Avirup Bose, Financial Express, May 1 2015
- **Leave the internet alone**, with Avirup Bose, Livemint April 22, 2015
- **The fuss over spectrum auctions**, with Avirup Bose, Livemint, April 1, 2015
- **Helping the regulators walk the tightrope: Nobel for Tirole**, with Prof. Sudhir A.Shah, Financial Express October 16, 2014
- **Strong competition as a reform**, with Avirup Bose, Livemint, August 24, 2014
- **So many regulators** Jurisdictional issues in regulation, with Avirup Bose, Indian Express, September 2014
- **Should electricity regulators promote competition?** A debate with Navroz Dubash, CPR, Business Standard, March 16, 2011
- **Who can afford Such Whimsy?** Spectrum Allocation, The Financial Express, May 2010
- **Grading the regulators**, The Financial Express, January, 2010
- **A 60,000 crore scandal in spectrum allocation**, The Financial Express, October, 2009
- **Let Coal be Green**, The Financial Express, September, 2009
- **India's Mollycoddled Iron men, A commentary on the State of Competition in the Indian Steel industry**, The Financial Express, August, 2009

- **Government should not play monopoly**, The Financial Express, July 2009
- **Why doesn't Infosys innovate?** The Financial Express, June 2009
- **The economics of chota recharge**, The Financial Express, May 2009.
- **All Wired up, A commentary on competition in Indian electricity sector**, The Financial Express, April 2009
- **In Raja's Raj, A commentary on the five years of the UPA government**, The Financial Express, April 2009
- **Trai again? What ails VAS in India?** The Financial Express, January 2009
- **Read the Radio Signal Right**, The Indian Express, December 10, 2007
- **Rural telephony: TRAI has got it right, finally!** The Indian Express, October 31, 2005
- **Regulation of Infrastructure Sectors: Moving Beyond the Rhetoric**, The Financial Express, March 3, 2005
- **Dial R for Regulator**, The Indian Express, July 10, 2004
- **Beauty Contests' Must End: Spectrum Allocation in Telecommunications**, op---ed article, Financial Express, March 2, 2004
- **How natural are electricity distribution monopolies?; op---ed article**, Business Standard, March 31, 2003
- **Making Power Competitive**, op---ed article, Business Standard, October 15, 2002
- **Privatization in India by G. Ganesh, Book Review**, Business Standard, May 2001

Presentations at Conferences/Seminars/workshops

In the capacity of Advisor Economics, I have represented CCI at various National and International forums to speak on Competition law and policy including an engagement with the Coal Ministry on Coal Sector reforms and the Telecom Regulatory Authority of India (TRAI) on Spectrum Auctions.

- **How can innovation economics guide IPR policy**, An expert panelist at the First Annual Roundtable on Innovation, Intellectual Property and Competition, organized by the Centre for Innovation, Intellectual Property & Competition, NLU Delhi, April 2, 2016.
- Expert Panelist on a **Roundtable on Patents and IPR practices in ICT/ITES**, organized by Center for Policy Research, March 22, New Delhi.
- **Competition and Innovation**, An expert panelist at a Workshop on Standardisation and Innovation in the ICT Sector , organized by Jindal Global Law School on 19 December, 2015, in New Delhi.
- **New Challenges for Competition Regulation**, Competition issues in Platform Markets, Presentation CPRsouth, 2015, August 25, 2015, Yuan Ze University, Taipei, Taiwan
- **Expert Policy Panel: Zero rating, net neutrality - who knows, who cares?** Expert Panelist CPRsouth2015, Taipei Taiwan
- **Digital Intermediaries and Competition Issues: An Indian perspective**, Presentation at EuroCPR,

2015, March 22-23

- **The Impact of Cartels on the Poor** Country presentation representing CCI at the Intergovernmental Group of Experts on Competition Law and Policy organized by UNCTAD, Geneva, July 8-10, 2013
- **Issues in Spectrum Management, Taking Evidence Based Research to Policymaking**, NICT-DoT workshop on Spectrum Management, New Delhi, April 29, 2013
- **Competition issues in platform markets/network industries and Competition Act, 2002**, PHDCCI and CIRC Conference on Competition Law Enforcement and Business Strategy, New Delhi, November 29, 2012
- **Economic Analysis of Competition Law: Use of Economic Theory**, A course on law and economics, IIT Kanpur, October 23, 2012
- **Sector and Competition Regulation Convergence**, Young Scholar Seminar Programme, CPRafrica/CPRsouth7, Port Louis, Mauritius, September 3, 2102
- **An Economic Approach to the Competition Act**, CIRC---NLUD Panel Discussion, July 14, 2012, New Delhi
- **Seeking Efficiency and Excellence in the Implementation of Infrastructure Projects in India :Power and National Highways**, NCAER---Holcim Workshop, July 8, 2011
- **Quality of Regulation---The determinants**, CUTS International Conference on Reviewing the global experience on economic regulation – A forward looking perspective, April, 18---20, 2011, New Delhi
- **Trends in the ICT industry and ICT R&D in India**, Conference on ASIAN RISE IN ICT R&D – Looking for evidence: Debating collaboration strategies, threats and opportunities. JRC- IPTS, European Commission, Brussels, February 16---18, 2010
- **Building Infrastructure In India: Pre-execution Issues**, NCAER--- Holcim Conference, New Delhi, December 1, 2010
- **Interconnection Regulation in India: Lessons for Mexico**, A seminar sponsored by CIDE Mexico in collaboration with Cofetel, Mexican Telecom Regulator, Mexico City, October 28, 2010
- **Measuring the Indian ICT Sector: An initiative of MoSPI, International Seminar on ICT Statistics**, UNSD, Seoul, Korea, July 19---July 22, 2010
- **Impact on Competition of Spectrum Allocation**, 18th ITS Biennial Conference, Tokyo, Japan
- **Reconciling Equity and Efficiency in the Allocation of Spectrum**, CPRafrica, Cape Town April 19---21, 2010
- **ICT innovation systems comparative study of India, China and Taiwan**, project meeting DGINFSO, European Union, Brussels, January 2010
- **Spectrum allocation: Lessons from India**. Telecom Regulatory Environment, media event, Bangkok, Thailand

- **Public Enterprises, Government Policy and Competition: Market Study for Steel and Petroleum Refining**, National Conference on the State of Competition In India, Competition Commission of India, New Delhi
- **Curbing Regulatory Capture by Vested Interests through Institutional Reforms**, Session Panelist in a CUTS Jaipur International Conference on Political Economy Constraints on Competition and Regulation in Developing Countries, June 2009.
- **ICT Statistics and Policy in India**, at a Orbicom project workshop, May 2009, UQAM, Montreal, Canada.
- **Independent Regulation of Electricity Utilities in India: Constraints on Performance and the Achievements of the Delhi Regulatory Contract**, Paper presented at the Infrastructure Regulation Conference, Hong Kong University. February 2009.
- **Re-Examining Universal Service in telecoms: Lessons from three South--- Asian Countries**, Paper presented at the 17th Biennial Conference of the International telecommunication Society, ITS, Montreal, Canada, June 27, 2008
- **Reconciling Competitive Markets in Telecommunications with Universal Service: Lessons from India**, Lecture delivered at Quello Center for Telecommunication Management & Law, Michigan State University, October 4, 2007
- **India's Universal Service Obligation for Rural Telecommunications: Issues of Design and Implementation**, 35th Research Conference on Communication, Information and Internet Policy, National Center for Technology & Law, George Mason University School of Law, Washington, USA
- **Industry structure ICT Indicators: A Study of six countries, Indicators workshop**, LIRNEasia, Singapore, March 3, 2007
- **Telecom Regulatory Environment of India**, paper presented at CPR South 1, Manila, January 19, 2007 **Documenting capabilities for measuring ICT in India**, WPIIS meetings, OECD, London, May 21, 2007
- **USO in Infrastructures**, Lecture in a Plenary session at the 8th SAFIR core course, April 4, 2007
- **India's telecommunication Industry: Policy, Regulations and Indicators**, Paper presented at NCAER---EU, Conference on Sustaining Fast Growth: The Role of Economic Regulation, New Delhi, December 4, 2006.
- **India's Telecommunication Industry, Indicators of Performance**, Paper presented at a six country Researcher's meeting, Habarana, Sri Lanka, September 12, 2006.
- **Policy Implications of the Digital Opportunity Index (DOI) Analysis for India: Capabilities of Measurement and Importance of Extending DOI to a Regional Level**, Paper presented at the Digital Opportunity Forum, hosted by ITU and Ministry of Communication and Information , Republic of Korea, Seoul, September 1, 2006.
- **ICT sector in India: Way Forward**, Panelist for an IAS Training programme on deregulation in Infrastructure Sector, organized by TERI, August 11, 2006.

- **Study of the subsidy mechanism in Indian Telecom: Universal Service Obligation**, Paper presented at the 16th Biennial Conference of the International telecommunication Society, ITS, Beijing, China, June 14, 2006
- **Telecom Regulatory Environment: Issues and Methodology**, Lead discussant, at the ICT indicators workshop of TRAI and LIRNEasia, March 4, 2006
- **Current Issues in Competition and Regulation: Indian Telecommunications Sector**, EU---India cross-cultural programme, NCAER, Oct 11, 2005
- Diversifying Network Participation: **India's Universal Service Instruments in Telecom**, World Dialogue on Regulation, Expert Forum, Singapore, September 30, 2005
- **India's USO in telecommunications**: Colloquium at LIRNEasia, Sri Lanka, May 20, 2005
- **Lessons form India's Power Sector Reforms**, Lecture delivered to Indian Economic Service trainees at the Institute of Economic Growth, Delhi, December 16, 2004
- **Regulation of the Indian Power Sector**, Lead discussant at a Voice and Client Power workshop, WSP-SA, World Bank, New Delhi, December, 2004.
- **Regulation and Investment: Case Study of Indian Telecommunications Sector**, World Dialogue on Regulation (LIRNEasia), Expert forum, Colombo, September 17---20, 2004
- **Indian Telecommunications Policy and Regulation: Impact on Investment and Market Structure**, WDR, LIRNE.Net, Expert forum, Cairo, May 4---5, 2004
- **Competitive Electricity Markets: what needs to be done?** Paper presented to the Expert Group on Power Sector Reforms in Punjab, January 2003
- **Power Sector Reforms in India: Issues in Market Structure and Regulation**, Lecture delivered to Indian Economic Service trainees at the Institute of Economic Growth, Delhi, November 27, 2002
- **Affordability of Telecommunication Services**, Draft Final Report presented to Telecom Regulatory Authority of India, TRAI, July 10, 2002.
- **State of Indian Power : Political Economy of the Power Sector in India**, Paper presented in a Seminar at the Section Economics of Infrastructures, Faculteit Techniek, Bestuur en Management (TBM) at Delft University of Technology (TU Delft), the Netherlands, May 15, 2002
- **Financial Sector Reforms in India**, Paper presented in ADB---NCAER Conference, August 1998

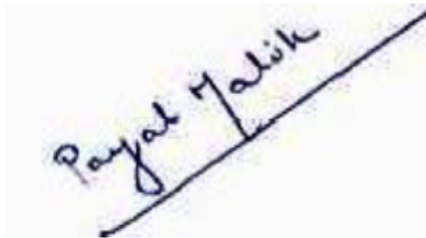
Capacity Building Programmes /Workshops/Conferences Organized

- **Content Manager for a workshop on ICT Statistics for a Knowledge Economy**, November 19---20, 2007, in collaboration with OECD and DIT
- **Module coordinator 8th Core Course on Infrastructure Regulation**, SAFIR, April, 2007
- **Sustaining Fast Growth: The Role of Economic Regulation**, December 4---5, 2006, NCAER, Lead Content design, collaborating partners, IDEI, Toulouse, CEPR, London and ECARES, Brussels.
- **A Workshop on Public Private Partnership and Regulation in Infrastructure Services**, April 10---11, 2006, Lead Content design
- **ICT Indicators Workshop, LIRNEasia and TRAI, sponsored by IDRC**, March1---6, 2006 New Delhi, India.
- **Challenges to competition in Telecommunications**, NCAER, August 2003, Lead Content Design

- **Introducing Competition in the Power Sector**, October 2002, NCAER, Lead content design

Workshops/Training/ Capacity Building Programmes Attended

- **Economics of Merger/Antitrust Analysis**, One week study tour on advance economics , US---FTC, Washington DC, August 22---29, 2012
- **Conference on Public Services and Management**: Designs, Issues and Implications for Local Governance, January 11---January 14, 2006 *IDEI*, University of Toulouse, France
- **Telecom Reform Course on Catalyzing Change**: Strategies to achieve connectivity and convergence, 7th LIRNE.NET course on Telecom Reform in Singapore, September 25---30, 2005.
- **Refresher Course on Contemporary India** conducted by Centre for Professional Development in Higher Education, University of Delhi, March 2005
- SAFIR (South Asian Forum for Infrastructure Regulation)---**Fifth Core Training Course on Infrastructure Reform and Regulation**, August 3---11, 2003, Marawila, Sri Lanka
- Attended a course in **Economic Regulation of Infrastructures at the Section Economics of Infrastructures**, *Faculteit Techniek, Bestuur en Management (TBM)* at Delft University of Technology (TU Delft), the Netherlands, March---June 2002
- **Refresher course in Applied Microeconomic Theory** conducted by the Department of Economics Delhi School of Economics, Delhi University, April 2001



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