

# Curriculum Vitae

1. Name in Full : DR. VIKRAM CHADHA
2. Present Employment : Professor, Punjab School of Economics,  
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INDIA.
3. Date of Appointment : 4 July, 1979
4. Sex : Male
5. Nationality/Citizenship : Indian
6. Date of Birth : 22 October, 1955
7. Address for Correspondence (Office): Dr. Vikram Chadha  
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9. **Record of Tertiary Education:**

Completed Graduation with **Economics Honours** in 1974, and **Post Graduation in Economics** in 1976 from Punjab University, Chandigarh; **M.Phil. in Economics** in 1977 from H.P. University, Shimla; **Ph.D. in Economics** from Guru Nanak Dev University, Amritsar in 1991; and completed a **Post-Doc Research Project** from the Department of Pacific Studies, School of Social Sciences and Humanities, University of Guadalajara, Mexico in 2001.

10. **Titles of Dissertations/Thesis Submitted for the Degree of**

(a) Post-Doc Res. Project:

(Economics) - WTO Obligations, Globalization and the Significance of Agricultural Research: A Comparative Study of the Indian and the Mexican Situations

(b) Ph.D. (Economics) - Effectiveness of Institutional Research and Development in Indian Industry.

(c) M.Phil.(Economics) - A Comparative Study of Public and Private Breweries in Punjab.

(d) M.A.(Economics) - Impact of Recent Recession on Steel Rerolling Industry in Ludhiana

11. **Publications** : Papers/Articles Published : 92  
Book Reviews Published : 5  
Abstracts of Papers Published : 14  
Books Published : 3  
(Details on separate sheets attached)

12. **Area of Specialisation:** Industrial Economics  
(Economics of Innovation & New Technology;  
Industrial R & D; Technology Policy;  
Transfer of Technology); Labour Economics

13. **Subject** : Economics

14. **Teaching Experience:** Over 34 Years

15. **Research Experience** : Over 32 Years. Supervised 45  
Theses/dissertations/project reports at  
M.Sc. (Hons.); MBE; M.Phil and Ph.D. levels  
(Detail on separate attached sheets)

16. **No. of Papers Presented/Accepted** : International Conferences-13  
National Conferences- 54  
(Details on separate attached sheets)

17. **Professional Career:** Before joining the **Punjab School of Economics, Guru Nanak Dev University, Amritsar (Punjab)** as Lecturer in 1979, I had taught and researched for about 3 years as Lecturer and Research Associate at **Government College Chandigarh; Punjab Agriculture University, Ludhiana; and S.D. College, Ambala Cantt. (Haryana).**

Subsequently I was promoted as **Senior Lecturer** at **GND University** in 1986; and as **Reader** in 1991; and **Professor of Economics** in 2000. In the mean while I also got the opportunity to serve as **Visiting Professor** on a short term assignment from UGC at **Chui University, Bishkek, Republic of Kyrgyzstan (CIS)** during 1996; and from the HRD Ministry at the **Asian Institute of Technology, Bangkok, Thailand,** during 2007.

18. **Membership of Professional Bodies:**

1. Life Member of Indian Economic Association.
2. Associate Editor, PSE Economic Analyst.
3. Formerly, Member Editorial Board, Economic Dateline.
4. Life member of Indian Society of Labour Economics.
5. Life member of Regional Science Association, India.
6. Formerly member Editorial Board, The Economic Challenger.
7. Appointed on the board of referees of the Journal, Management in Government.
8. Life member of Indian Political Economy Association.

19. **Administrative Experience:** **Member Academic Council GNDU** for two years and during 2010-12; **Member and Dean, Faculty of Economics and Business and Board of Studies in Economics GNDU** for many years; **Member& Chairman Board of Control and Faculty Advisor** of Punjab School of Economics for years; **Paper setter** for a large number of papers for many universities for the last 30 years; **Evaluated** a large number of M.Phil and PhD theses and MA and MBE dissertations and project reports for many years for a large number of universities; **Member Executive, Vice-President and Office Bearer of GNDU Teachers Association** for many years; **Member of various Campus Committees** at

GNDU including **Press and Publication and Planning Board ; Member and convener of various college inspection committees** for many years **Member on the selection panel** of various universities and colleges for a large number of years. Appointed **Head of Punjab School of Economics** from April 2010 to June 2013. **Convener, Special Assistance Programme (SAP)** of the UGC instituted at Punjab School of Economics; Member Senate, GNDU, Amritsar (2011-2012).

## 20. Honours & Awards:

1. Awarded Second prize for the article, “Responsibilities and Moral Obligations of Universities” in an article writing contest organized by the news portal, *Punjabnewslines.com*, during December, 2009.
2. Nominated for inclusion in *Marquis Who's Who in the World, 2010*.
3. Nominated for inclusion of biographical reference in, *Top 100 Educators- 2008*, by the International Biographical Centre, Cambridge, England.
4. Selected by the Ministry of Human Resource Development, New Delhi as a Visiting Professor for a *short-term faculty secondment at the Asian Institute of Technology, Bangkok, Thailand* for a 16-week semester from August-December 2007.
5. Nominated for inclusion in *THE CAMBRIDGE BLUE BOOK OF FOREMOST INTERNATIONAL INTELLECTUALS 2007*, published by International Biographical Centre, Cambridge, England.
6. Nominated as *International Educator for the Year 2007*, and included in *Leading Educators of the World 2007*, and in the *2000 Outstanding Intellectuals of the 21<sup>st</sup> Century*, by the International Biographical Centre, Cambridge, England.
7. Nominated for *RASHTRIYA GAURAV AWARD* by the India International Friendship Society, New Delhi, for 2006, for “rendering yeoman services with excellence in respective field”
8. Chosen to be included in *Marquis' Who's Who in Asia, 2006*.
9. Chosen for *Vijay Rattan Award* along with a *Certificate of Excellence* by the *India International Friendship Society, New Delhi*, during November 2005.
10. Appointed *Course Coordinator* for organizing a *UGC Refresher Course in Economics* for university and college teachers, at *Academic Staff College, Guru Nanak Dev University, Amritsar*, during 5 May to 25 May, 2005, with the thrust areas, “*India's External Sector Reforms: Progress, Problems and Prospects*”.

11. Awarded a commendation certification for a Post-Doctoral Research Project titled "*WTO Obligations, Globalisation and the Significance of Agricultural Research: A Comparative Study of the Indian and the Mexican Situations*", by the *Department of Pacific Studies, School of Social Sciences and Humanities, University of Guadalajara, Guadalajara (Jalisco), Mexico*, during October-November, 2001.
12. Elected *member of the Executive of the Indian Society of Labour Economics* during 2001-02.
13. Nominated for inclusion in *Marquis Who's Who in Science & Engineering, October 2001, New Providence, NJ, USA*.
14. Selected by the HRD Ministry for the award of a Post-Doctoral Fellowship, during 2000-2001, to be undertaken at the University of Guadalajara (Jalisco), Mexico, for my research project titled, '*WTO Obligations, Globalisation and Significance of Agricultural Research: A Comparative Study of India and Mexico*'.
15. Conferred honorary membership of the Research Board of Advisors of the American Biographical Institute, North Carolina, USA for the year 2000.
16. Selected by District 3070 Rotary International to represent its Group Study Exchange Team to District 6250, State of Wisconsin, USA, from 7th April to 7 May 1997.
17. Conferred the Rank of "Honorary Professor of Chui University", by the Scholar Council of Chui University, Bishkek, Republic of Kyrgyzstan, in November 1996.
18. Nominated by University Grants Commission, New Delhi, to visit The Republic of Kyrgyzstan to deliver lectures at Universities and Research Institutes, during October-December 1996.
19. Awarded First prize, comprising cash prize of Rs.2100, a gold medal, a trophy and a merit certificate, on my paper "Role of Savings in a Developing State", by the Government of Punjab, in August 1992.

## **Papers/Articles Published**

1. "Decline in Quality: MNCs Reluctant to Hire Technical Manpower", *The Tribune*, June 8, 2010, p. 11.
2. "Globalisation and the Emergence of India's Knowledge Economy", in K.C. Roy and A. Medhekar (eds.), *Globalisation and Development: Country Experiences*, New York, USA: Nova Science Publishers, 2010, pp.31-46; and, "India's Global Integration and the Emergence of India's Knowledge Economy: The Role of ICT Sectors" *Journal of South Asian Economy* (Forthcoming).
3. "Responsibilities and Moral Obligations of Universities", *PunjabNewslines.com*, November 9, 2009.
4. "Improve the Quality of Teaching", *The Tribune*, 2 August, 2009, p.12; and, "Reflections on the Quality of Teaching in Indian Universities", *University Today*, 15 July 2008, pp.6-7.
5. "Student-Teacher Relations Going Awry", *The Tribune*, July 14, 2009, p.11.
6. "Pitroda's Proposals: There has been Little or no Reaction from Universities", *The Tribune*, 26 April, 2009, p.13.
7. "Nature, Composition and Extent of the Stock of India's Educated Manpower: Problems and Implications for Growth and Employment", *The Indian Economic Association 91<sup>st</sup> Annual Conference Volume Part-II*, Udaipur (Rajasthan) : Department of Economics, University College of Social Sciences and Humanities, MLS University, 27-29 December, 2008, pp. 720-29 .
8. "Stock of Technical Manpower in India: Prospects for Employment in the Emerging Labour Markets", *Indian Journal of Labour Economics*, Vol.51, No.4, 2008, pp.831-42.
9. "A Regional Perspective on Rural Industrialisation in India: The Case of Punjab Economy", *Journal of Rural Development*, Vol.27, No.2, 2008, pp.213-30.
10. "The State of Agricultural Research in Punjab: Imperative for Rejuvenation", in Autar S.Dhesi and Gurmail Singh (eds.), *Rural Development in Punjab: A Success Story Gone Astray*, London and New Delhi: Rutledge, 2008, pp.179-87; and "The State of Farm Research in the Punjab Economy: Imperative for an Augmented Effort", *Envision*, No.1, January 2007, pp.36-40.

11. "WTO Regulations, Employment and Exports From India's IT Sector: Problems and Prospects" in, M.S. Gupta (ed), *WTO and Indian Economy*, New Delhi: Serials Publications, 2007, pp.273-80.
12. "An Assessment of the Regional R&D Effort in India: An Inter-State Analysis of Some Industrially Advanced States", *Studies in Regional Science (Tokyo, Japan)*, Vol.37, No.2, October 2007, pp.415-25; and in *Pragyaan*, Vol.5, No.1, April 2007, pp.28-35.
13. "Stem the Rot: Hype and Rhetoric Prevail in Universities", *The Tribune*, Perspective, January 7, 2007, p.12.
14. "Globalisation, Technology Intensive Exports and R&D Effort in an Emerging Knowledge Economy like India: The Case of some Selected Science Intensive Sectors" *VARTA*, Vol. XXVII, No.1&2, 2006, pp.19-36.
15. "Employment of Scientific and Technical (S&T) Workforce in an Emerging Knowledge Economy like India: The Case of Some Selected Science Intensive Sectors", *Labour and Development*, Vol.11-12, No.1&2, June 2006, pp.133-49.
16. "No More Temples of Learning", *The Tribune*, May 28, 2006, p.13.
17. "Globalisation and the Competitiveness of Indian Industry: Is it Adequately Prepared for the New Challenges?", in V. Upadhyay; et.al.(eds.), *Productivity and Quality: A Multidisciplinary Perspective*, New Delhi: Tata McGraw-Hill Publishing Co. Ltd., 2006, pp.676-86.
18. "WTO, TRIPS and India: Contemporary Issues and Implications for India's Pharmaceuticals Industry", *Conference Volume of the 88<sup>th</sup> Annual Conference of the IEA*, Vishakhapatnam (AP): School of Economics, Andhra University, Dec. 2005, pp.326-33; and in, A.K.Thakur and N.Sharma (eds.), *WTO and India*, New Delhi: Deep and Deep Publications, 2007.
19. "Tackling Exam Muddle in Varsities" *The Tribune*, December 11, 2005, p.13; and, "Examination Muddle in the Indian Universities", *University Today*, Vol.XXV, No.24, 15 December 2005, pp. 5-6.
20. "Role of the State in Information Dissemination for Catalysing Technological Diffusion in Indian Manufacturing", in K.R. Gupta (ed.), *Studies in Indian Economy*,

- New Delhi: Atlantic Publishers, 2005, pp.85-99, and in, *Management in Government*, Vol. XXXV, No.4, January-March, 2004, pp.15-27.
21. "Globalisation, Indigenisation of Defence Production and the Need to Close the Interface Between Military R&D and Civil Manufacturing in India", in K.R. Gupta (ed.), *Liberalisation and Globalisation of Indian Economy*, New Delhi: Atlantic Publishers, 2005, pp.72-106; and in, *Abhigyan*, Vol.XX, No.3, Oct.-Dec. 2002, pp.9-14.
  22. "Falling Standards of Research", *The Tribune*, July 24, 2005, p.13.
  23. "Time to Restore the Majesty of Vice-Chancellors", *The Tribune*, January 23, 2005, p.12.
  24. "WTO and India's New Competition Policy", in Felendra K. Sudan (ed.), *Globalisation and Liberalisation: Nature and Consequences*, New Delhi: Serials Publications, 2005, pp.1-15; and in, *Abhigyan*, Vol.XXII, No.2, July-September 2004, pp.22-29.
  25. "Recognise Teacher's Worth to Suit Changing Times", *The Tribune*, November 28, 2004, p.12.
  26. "When Power Brokers Rule the Roost in Varsity Campuses", *The Tribune*, August 29, 2004, p.12; and *University Today*, vol. XXVI, No.16, 15 August 2006, p.24.
  27. "Globalisation and Re-Emergence of Regional Economic and Trading Organisations: Causes and Compatibility", *Synthesis*, Vol. 2, No.1, July-December, 2004, pp.22-32, and, *National Seminar on Intellectual Property Rights: The Indian Scenario*, Jullundur: Apeejay College of Fine Arts, Nov. 2003, pp.49-55.
  28. "Human Capital Base of the Indian Labour Market: The Case of India's Stock of Scientific and Technical (S&T) Manpower", *Paradigm*, Vol. VIII, No.2, July-December, 2004, pp. 14-20.
  29. "Changing Structure of Scientific and Technical Workforce in India's Industrial Sector", *The Indian Journal of Labour Economics*, Vol.47, No.2, April-June, 2004, pp. 281-92.
  30. "Bureaucratisation: The Bane of Universities", *Hindustan Times*, December 5, 2003, p. 9; and, "Save Varsities from Bureaucracy" *The Tribune*, June22, 2003, p.12.

31. "Why University Students Betray a Lack of Flair for Learning", *The Tribune*, Nov.30, 2003, p.12.
32. "Punjab: Industrial Policy and State's Role", *Economic and Political Weekly*, Vol. XXXVIII, No.47, Nov.22-28, 2003, pp.4940-42.
33. "Why Varsity Teachers' Bodies Have Lost Their Sheen", *The Tribune*, July 27, 2003, p.12.
34. "Challenge of Agricultural Research in Punjab in the WTO Regime", in M.S. Gill (ed.), *Punjab Society: Challenges and Perspectives*, New Delhi: Concept Publishing Company, 2003, pp.160-63.
35. "Reflections On Budget: Innovative on Populist Gimmicks", *Economic Dateline*, Vol.III, No.3, March2003, pp.30-31.
36. "State Of Indian Universities: An Unfair Performance Evaluation System", *The Tribune*, March18, 2003, p.10.
37. "Industrialising Punjab: Strategy and Initiatives", *Economic Dateline*, Vol. II, No. 8, Aug. 2002, pp.20-22.
38. "Impact of Industrial Deregulation on Industrial Performance in India (1985-95)", *Anvesak*, Vol.32, No.2, July-December 2002, pp.57-76; and, "Industrial Deregulation and Industrial Performance in India Since Mid 80s ", in V. Chadha and G.S. Bhalla (eds.), *Indian Industrial Development: The Post Reform Scene*, Ludhiana: Kalyani Publishers, 1999.
39. "Quality of India's Research Personnel: Gaps and Implications for Building Self-Reliant Technological Capacity", *Economic Dateline*, Vol. 2, No. 7, July 2002, pp.31-33.
40. "Technological Diffusion in Indian Manufacturing: Implications for Technology Policy", *Economic Dateline*, Vol. II, No. 5, May 2002, pp. 30-32
41. "Technological Diffusion in Indian Manufacturing: Determinants and Policy Implications", in *Structure of Employment and its Interface with Technology: Present Status and Policy Imperatives for Productivity Enhancement (Mimeo.)*, New Delhi: I.I.T., Deptt. Of Humanities and Social Sciences, March 2002.
42. "El Modelo Desarrollo Economico de la India", *Mexico y la Cuenca del Pacifico* (Mexico), Vol.4, No.14, Sept.-Dec. 2001, pp.72-78.

43. "Punjab Industrialisation at Crossroads", *The Tribune*, 27 Sept. 2001, p.7.
44. "India's International Cooperation in Science and Technology: Problems and Prospects", *Economic Dateline*, vol. 1, no. 1, April 2001, PP 42-44.
45. "WTO and the Imperative of an Exalted Agricultural Research in India", in G.K.Chadha (ed.), *WTO and the Indian Economy*, New Delhi: Deep & Deep Publications Pvt. Ltd., 2001, pp. 315-27.
46. "Qualifications and Emoluments of the Research Personnel in India's S&T Sectors: A Cross Section Study", *Management and Labour Studies*, vol.26, No. 1, Jan.2001, pp. 37-45; and in, *Indian Journal of Labour Economics*, Vol.43, No.4, October-December 2000, pp.927-34.
47. "The Globalisation Syndrome and Industrial R&D in India: Implications and Prospects", in, Debendra K.Das (ed.), *Globalisation and Development: Experiences and Challenges*, New Delhi: Deep & Deep Publications Pvt.Ltd., 2000, pp.417-34; and, "Foreign Collaboration and Industrial R & D in India: Some Issues", in S. Murty (ed.), *Multinational Corporations in India*, Jaipur: R B S A Publishers, 1998, pp. 86-103; and in, *IEA Seventy Ninth Annual Conference Volume*, Dec. 27-29, 1996, pp. 72-84;
48. "Indigenising Defence Production: Linking Military R&D with Industry", *The Tribune*, Saturday, October 14, 2000, p.12.
49. "Promoting Science: How Efficient is Punjab's Regional Science Council?" *Economic and Political Weekly*, Vol. XXXV, No.39, September 23-29, 2000. Pp.3474-75; and "Relevance of Regional Science Councils: The case of Punjab State Council for Science & Technology" *Southern Economist*, December 1999.
50. "Research in Indian Varsities: Lacunae and Challenges Ahead" *The Tribune*, Saturday, September 2, 2000, p.10.
- 51.** "Small Industry in Punjab: Technology Policy and Modernisation", *The Tribune*, Saturday, July 29, 2000, p.10.
52. "The WTO Obligations: Significance of Farm Research", *The Tribune*, Thursday June 29, 2000 p. 9.
53. "Factors Influencing the Transfer of New Technologies from R&D Institutions to Manufacturing in India", in, B.K. Pattnaik (ed.), *Technology Transfer and In-house*

- R&D in Indian Industry*, New Delhi: Allied Publishers Ltd., Vol. 1, 1999, pp. 250-269; and, "Factors Influencing Technology Transfer from R & D Institutions to Manufacturing: Some Empirical Evidence from India", *Science, Technology & Development* (London), Vol.13, No.2, Aug.1995, pp. 225-37.
54. "Financing Technological Modernisation of the Small Industrial Sector in India: The Post Liberalisation Context", in V. Chadha and G.S. Bhalla (eds.), *Indian Industrial Development: The Post Reform Scene*, Ludhiana: Kalyani Publishers, 1999; and, "Financing Technological Modernisation of the Small Industrial Sector in India: Opportunities and Constraints", *Small Enterprises Development, Management and Extension Journal*, Vol. 26, No. 3, Sept. 1999, pp. 73-93.
55. "An Analysis of the Nature and Extent of India's Globalisation (1970-96)", *Foreign Trade Review*, Vol. XXXIV No. 2, July-September 1999.
56. "Financing the Modernisation of Small Industries In India: Opportunities and Constraints", *Southern Economist*, Vol. 38, No. 2, May 15, 1999, pp. 5-6; "Technology Modernisation and Institutional Finance", in P.M. Mathew (ed.), *Finance for Small Enterprises in India*, Cochin: Institute of Small Enterprises and Development, 1998, pp. 57-61.
57. "Implications of India's Global Orientation During the 1990s: Accomplishments and Pitfalls", *Foreign Trade Review*, Vol. XXXIV, No. 1, April-June 1999, pp. 52-71; and in, P.P. Arya and B.B. Tandon (eds.), *Swadeshi Vs. Multinationals*, New Delhi: Deep and Deep Publishers, 1999.
58. "India's Economic Reforms and Foreign Technical Collaborations: Need for a Cautious Approach". *The Economic Challenger*, Vol. 1, No. 3, April-June, 1999, pp. 45-48.
59. "Indo-Canadian Technology Trade Since Independence: Trends and Prospects ", *Political Economy Journal of India*, Vol. 8 , No. 1 & 2, January -July 1999, pp. 1-8.
60. "Disparate Regional Technical Development in India: An Inter-State Analysis". *IEA 2<sup>nd</sup> Amrit Jubilee (81<sup>st</sup>) Conference Volume*, Bangalore: IEA, 1998, pp. 514-28.
61. "A Case for Balanced Technological Development of Indian States". *Southern Economist*, Vol. 37, No. 16, December 15, 1998, pp.15-16; & "Disparate Regional Technological Development: The Case of Indian States", *Economic Challenger*, Vol. 1, No. 1, Oct.-Dec., 1998, pp. 25-28.

62. "India's Technology Trade with Western Europe since Independence: Trends & Prospects", *Foreign Trade Review*, Vol. XXXIII, Nos. 1 & 2, April-Sept. 1998, pp. 1-25.
63. "Structural Reforms and Indian Industry: Some Observations", *PSE Economic Analyst*, No. 2, Vol. XVIII, 1997, pp. 113-20.
64. Will Punjab Technical Varsity go the PAU Way?" *The Tribune*, 21 July, 1997, p.14.
65. "India's Foreign Technical Collaborations: Pattern and Growth", *Productivity*, Vol. 37, No.3, October-December, 1996, pp. 491-501.
66. "Industrial R & D Policy: Need For Structural Overhaul", *The Tribune*, August 31, 1996, p.8.
67. "Transferring New Technologies: Problems, Policies. And Prospects", *Management in Government*, Vol. XXVIII, No.1, April-June 1996, pp.25-46.
68. "Infrastructure for Industrial Development in Punjab", *Southern Economist*, Vol.34, No.15 & 16, Dec.1995, pp.15-16
69. "Technological Modernisation of Small Sector in India", *Productivity*, Vol. 36, No.3, Oct-Dec.1995, pp. 463-75.
70. "Generation and employment of Scientific and Technical Manpower in India", *Management and Labour Studies*, Vol.20, No.3, July 1995, pp.139-50.
71. "Technological Adaptation in Indian Manufacturing Case Study of Bicycle Industry", *The Indian Economic Journal*, Vol.42, No.2, Oct-Dec., 1994, pp 110-24
72. "Public and Social Control of Industrial Relations-A perspective", *Guru Nanak Journal of Sociology*, Vol. 15, No.2, October, 1994, pp. 57-67.
73. "What Ails our Technical Manpower", *The Tribune*, Science Tribune, September 1, 1994, p.17.
74. "Effectiveness of Institutional R & D in Indian Industry: A Regional Perspective", *Anvesak*, Vol. 23, No. 1&2, June-December 1993, pp.31-50.
75. "Liberalisation and Import of Foreign Technology in India - Prospects and Implications", *Punjab Journal of Politics*, Vol. XVII, NO. 1, 1993 and in, S. Murty (ed.), *The Changing Indian Economic Order*, New Delhi: Indus Publishing Co., 1993, pp.111-21.
76. "Technological Adaptation by Cycle Industry", *The Tribune*, June 3, 1993, p. 6.

77. "Reverse Flow of Capital and Technology from India: A Case of Economic Transformation", in R.S. Bawa and P.S. Raikhy (eds.), *Structural Changes in Indian Economy*, Amritsar: Guru Nanak Dev University Press, 1993, pp.265-281.
78. "Technological Self Reliance for India", in C.S. Nagpal and R.K. Mahajan (eds.), *Economic Policies*, New Delhi: Anmol Publications, 1992, pp. 361-396.
79. "Need for More R&D Effort", *The Tribune*, October 8, 1992.
80. "Why the Lab-to-Factory Gap?" *The Tribune*, May 2, 1991.
81. "Research and Development in India - A Regional Perspective", *Journal of Institute of Public Enterprises*, Vol. 14, No. 1, March 1991.
82. "Growth and Structural Pattern of Industrialisation in India (1973-85)", *Prajnan*, Vol. XIX, No. 1, Jan-Mar 1990.
83. "Science and Technology in India: Dichotomy Between Policy and Practice", *Assam Economic Journal*, Vol. VII, 1989.
84. "Technological Self Reliance and Industrial Research and Development in India - A Critical Evaluation", *Indian Management Studies Journal*, Vol. 1, No. 1, Oct. 1989.
85. "Relevance of Public Employment Service in Punjab Economy", *Journal of Institute of Economic Research*, Vol.23, July 1988.
86. "Study of Trends in Urbanisation and Provisions of Amenities in Punjab", *Quarterly Journal of the AILLSG*, Vol. LIX, No.3, July-Sept. 1988.
87. "An Analysis of Tax Evasion in Punjab", in P.S. Raikhy and S.S. Gill (eds.), *Resource Mobilisation and Economic Development: A Regional Perspective*, Amritsar: GND University, 1988; and *Udyog Prabandh*, Vol.2, No. 1, Jan 1987.
88. "State Industrial Service and Consultancy in Punjab", *Journal of Institute of Economic Research*, Vol. 22, No.2, July 1987.
89. "Prospects of 'Smokeless' Industry in India", *Indian Hotelier and Caterer*, Jan-Feb 1987.
90. "Public vs. Private Passenger (Bus) Transport in Punjab", *PSE Economic Analyst*, Vol. V, Nos. 1&2, 1984.
91. "Working and Performance of Public Industrial Enterprises in Punjab", in R.S. Johar and J.S. Khanna (eds.), *Studies in Punjab Economy*, Amritsar: GND University, 1982.

92. "Industrial Development of Punjab - Pattern, Problems and Perspective" *PSE Economic Analyst*, Vol. II, Dec. 1980.

## **CITATIONS**

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- ii. "Implications of India's Global Orientation During the 1990s: Accomplishments and Pitfalls" *Foreign Trade Review*, Vol. XXXIV, No. 1, April-June 1999, pp. 52-71, cited in Vivekanandan, B., "Globalisaatio Ja Kehitysmat", in H.Taimmio(ed), *Vainko Ruisleipa Ja Salmiakki*, 2002, pp2-7.
- iii. "Factors Influencing Technology Transfer from R & D Institutions to Manufacturing: Some Empirical Evidence from India" *Science, Technology & Development* (London), Vol.13, No.2, Aug.1995, pp. 225-37, Cited in, Massaquol, J.G.M.(ed.), *University Industry Partnership for Cooperative Technology Development in Africa: Opportunities, Challenges, Strategies and Policy Issues*, Nairobi: UNESCO, 2002; and in Katrak, H.(1998), "Economic Analysis of Industrial Research Institutes in Developing Countries: The Indian Experience" *Research policy*, Vol.27, No.4, pp.337-47; and in A.S. Dhesi, "Caste, Class Synergies and Discrimination in India" *International Journal of Social Economics*, 1998.
- iv. *Indian Industrial Development: The Post Reform Scene*, Ludhiana: Kalyani Publishers, cited in, Pandey, A.P.; et.al. (2007), "Routes of Survival of SSI in India and its Futurity: A Study of Pre and Post Reform Period", MRPA Paper No.965.
- v. "WTO and the Imperative of an Exalted Agricultural Research in India", in G.K.Chadha (ed.), *WTO and the Indian Economy*, New Delhi: Deep & Deep Publications Pvt. Ltd., 2001, pp. 315-27, cited in, D'Souza, E. (2005), "The WTO and the Politics of Reforms in India's Textile Sector: From Inefficient Redistribution to-----" (Mimeo), Ahemdabad: IIM; and in Joseph,B. and

- K.J. Joseph (2005), "Commercial Agriculture in Kerala After the WTO", *South Asia Economic Journal*, Vol.6, No.1, pp.37-57; and cited in, Bhaumik, S.K.; et.al. (2006), *Policy, Economic Federalism and Product Market Entry: The Indian Experience*, Michigan: William Davidson Institute Working Paper No. 843.
- vi. "Technological Adaptation in Indian Manufacturing: A Case Study of Bicycle Industry" *Indian Economic Journal*, Vol.22, No.2, 1994, cited in, *Literaturliste für den Kurs: Entwicklungstheorien, Entwicklungsstrategien, Entwicklungspolitik*, May 2003, p.28.
- vii. "Technological Modernisation of Small Sector in India", *Productivity*, Vol. 36, No.3, Oct-Dec.1995, pp. 463-75, cited in, G.S. Popli and D.N.Rao, "Strategies of Small and Medium Enterprises in Automobile Sector in the Post WTO Era: An Empirical Study in the Indian Context", *Social Science Research Network*, June 2, 2009.
- viii. "India's Foreign Technical Collaborations: Pattern and Growth", *Productivity*, Vol. 37, No.3, October-December, 1996, pp. 491-501, cited in, P. Drysdale (2004), *The New Economy in East Asia and the Pacific*, London: Routledge Curzon
- ix. "Reverse Flow of Capital and Technology from India: A Case of Economic Transformation", in R.S. Bawa and P.S. Raikhy (eds.), *Structural Changes in Indian Economy*, Amritsar: Guru Nanak Dev University Press, 1993, pp.265-281, cited in, *International Bibliography of Economics*, London: British Library of Political and Economic Science, 2002.
- x. "An Assessment of the Regional R&D Effort in India: An Inter-State Analysis of Some Industrially Advanced States", *Studies in Regional Science (Tokyo, Japan)*, Vol.37, No.2, October 2007, pp.415-25, quoted in, Joseph, K.J. and D. Abrol, "Science, Technology and Innovation Policies in India: Achievements and Limits", pp.101-32, in J.E. Cassioleto and V.Vitorino (eds.), *BRICS and Development Alternatives: Innovation Systems and Policies*, London, New York: Anthem Press, 2009.

xi. "Technological Self Reliance for India", in C.S. Nagpal and R.K. Mahajan (eds.), *Economic Policies*, New Delhi: Anmol Publications, 1992, pp. 361-396, quoted in, Bhau, D.S., *Role of Education in Human Resource Development*, New Delhi: Deep and Deep Publications, 1995.

# Abstracts Of Papers Published

1. “Geo-Economic Dynamics of the ICT Sectors Location in India: Determinants and Implications for Growth”, *The IEA 92<sup>nd</sup> Annual Conference Volume Part-I*, Bhubaneswar, Orissa: School of Management, KIIT University, 27-29 December, 2009, p.875.
2. “An Assessment of the Regional R&D Effort in India: An Inter-State Analysis of Some Selected Industrially Advanced States”, *Innovation Systems for Competitiveness and Shared Prosperity in Developing Countries: Abstracts*, Trivandrum, Kerala: Globelics India 2006, October 4-7, 2006, pp.24-25.
3. “Globalisation, Technology Intensive Exports and R&D Effort in an Emerging Knowledge Economy like India: The Case of some Selected Science Intensive Sectors” *Abstracts of the XVI World Congress of Sociology*, International Convention Centre, Durban, South Africa, 23-29 July, 2006, pp.43-44.
4. “Employment Trends in India as an Emerging Knowledge Economy: The Case of Some Selected Science Intensive Sectors”, *Abstracts of the Conference Papers: 47<sup>th</sup> Annual Conference of the ISLE*, New Delhi: CESP & CSRD, JNU, December 2005, pp.41-42.
5. “Human Capital Base of the Indian Labour Market: The Case of India’s Scientific And Technical (S&T) Manpower Stock”, *Indian Journal of Labour Economics*, Vol. 47, No. 4, Oct.-Dec. 2004. Pp.857-58.
6. “Role of the State in Information Dissemination For Catalysing Technological Diffusion in Indian Manufacturing”, *The Indian Economic Association 85th Conference Volume*, Thiruvananthapuram: Department of Economics, University of Kerala, p.II.239, 2002.
- 7.. “Globalisation, Indigenisation of Defence Production and Need to Close the Interface between Military R & D and Civil Manufacturing in India”, *National Seminar: Prospects of Industrial R & D in India under Globalisation*, Kanpur: Deptt. Of Humanities and Social Sciences, IIT, Feb. 6-7, 2001, p.13.
- 8.. “WTO Obligations, Globalisation and the Imperative of an Exalted Agricultural Research in India”, *IEA (83<sup>rd</sup>) Conference Volume*, Jammu: Jammu University, 2000, p.116.
- 9.. “India’s Technology Trade with Western Europe since Independence: *Trends and Prospects*”, *International Conference on Europe and South Asia: 500 years, Abstracts*, New Delhi: Indian Institute of Social Sciences, pp. 228-229.

10. "India's Economic Reforms and Foreign Technical Collaborations: Need for a Cautious Approach", *IEA 80th Amrit Jubilee (80th) Conference Volume*, Hyderabad: Osmania University, 1997, p. 557.
11. "Transferring New Technologies from Government R&D Institutions to Manufacturing in India: Problems, Policies and Prospects", *First World Congress On A Holistic Approach to Business Management: Proceedings*, Sydney: University of Western Sydney, 11-14 Jan. 1995, pp. 486-87.
12. "Generation and Employment of Scientific and Technical Manpower: A Step Towards Technological Self-Reliance", *The Indian Journal of Labour Economics*, Vol.36, No.4, October-Dec., 1993, pp. 716-17.
13. "Liberalisation and Import of Foreign Technology in India - Prospects and Implications", *Platinum Jubilee Year Conference Volume*, Indore: The Indian Economic Association, 1992, pp.142-43.
14. "Industrial Development Strategy and Growth and Structure of Indian Industry (1973-85)", *Social Science Abstracts*, Allahabad: Indian Academy of Social Sciences, Vol. XIV, 1989, pp.47-48.

## **Book Reviews Published**

1. Book Review of Hansen, B., *The Political Economy of Poverty, Equality and Growth: Egypt and Turkey*, Published in, *Punjab Journal of Politics*, Vol. XVI, Nos. 1-2, 1992.
2. Book Review of Fouad, Al-Farsy, *Modernity and Tradition: The Saudi Equation*, Published in, *PSE Economic Analyst*, Vol. XII, No. 2, 1991.
3. Book Review of Gamba, J.R.; et.al., *Industrial Energy Rationalisation in Developing Countries*, London : The John Hopkins University Press, 1986, Published in, *Indian Journal of Quantitative Economics*, Vol. 3, No. 1, 1987.
4. Book Review of Brian, B., *Radical Political Economy - An Introduction to the Alternative Economics*, Published in, *Indian Journal of Quantitative Economics*, Vol. 3, No. 2, 1987.
5. Book Review of Robert, W. (ed.), *Applied Quantitative Research*, Published in, *Indian Journal of Quantitative Economics*, Vol. II, No. 2, 1986.

## **Books Published**

1. *Reflections on a Changing Economy: Science, Technology and Development in India During the First Decade of Reforms*, Ludhiana: Kalyani Publishers, 2003.
2. *Indian Industrial Development: The Post Reform Scene*, Ludhiana: Kalyani Publishers, 1999.  
This book has been reviewed by Randeep Wadehra in, *The Tribune*, May 28, 2000
3. *Effectiveness of Institutional Research and Development in Indian Industry*, Jullundur: ABS Publishers, 1996.

## **Participation in Discussions /Lectures Delivered**

1. Delivered a lecture to the students of Economics Department, BBK DAV College for Women, on the topic, "*Quality of Technical Education in Punjab*", on 12 February, 2011.
2. Delivered a lecture on "*The Quality of Technical Manpower in Punjab*", at Khalsa College, Amritsar, on 24 January, 2011.
3. Invited and participated in One-Day Interactive Session on "*Cooperation and Linkages Between the Two Punjabs*" at CRRID, Chandigarh, on 18 September, 2010.
4. Delivered key note address on "*India's New Education Policy and the Right to Education*", at a Seminar on "Protection on Fundamental Rights, Right to Education and Education for All", organized by the *Rajiv Gandhi Foundation*, at DAV Public School, Amritsar, on 20 August, 2009.
5. Delivered a lecture on *The Nature and Composition of India's Technically Skilled Professional Manpower: Implications for Growth and Employment*", to the students of commerce and economics at BBKDAV College for Women, Amritsar, on 7 August, 2009.
6. Delivered two lectures, on the theme, "*Globalisation and the Emergence of India's Knowledge Economy: Implications for Growth and Employment W.R.T. the ICT Sector*", at a UGC Refresher Course on, *Indian Economic Policy: Emerging Issues and Challenges*, at the Academic Staff College, Aligarh Muslim University, Aligarh, during 17-18 November, 2008.
7. Delivered a lecture on the theme, *Globalisation and India's Growing Knowledge Economy*, at Guru Nanak Girls College, Ludhiana, on 16 September 2006.
8. Participated in a TV discussion on the theme *Chaotic Urbanisation*, telecast from DD Punjabi channel on 19 and 24 August 2006.
9. Delivered two lectures on the Performance of the Indian Economy in the Wake of India's External Sector Reforms, at a UGC Refresher Course in Commerce and Management, at the Academic Staff College, GND University, Amritsar, on 1 December 2005.
10. Delivered a lecture on the theme, "Globalisation and India's Trade Reforms: Problems, Progress and Prospects", to the students of Economics, at SD College for Women, Jullundur, on 15 October 2005.
11. Delivered an Extension lecture on "WTO, TRIPS and India: Implications for India's Pharmaceutical Industry" to the students of PG Department of Commerce, BBK DAV College for Women, Amritsar, on 14 September 2005.
12. Delivered a talk on "*The Impact of Indo-Pak Peace Process on the Strategic and Future Development of Amritsar*", at a business meeting of the Lions Club, Amritsar, on 28 June 2005.
13. Delivered a lecture on "*Unemployment in India: Concepts, Causes, Measurement and Extent*", at a UGC General Orientation Course for College Teachers, organized by Academic Staff College, Guru Nanak Dev University, Amritsar, on 28 February, 2005.

14. Delivered two lectures on “*Globalisation and the Re-emergence of New Regionalism: Causes and Compatibility*” and “WTO, TRIPs and India: Contemporary Issues and Controversies”, at a UGC Refresher Course on Business Policy and National Development, at the Department of Economics, Kurukshetra University, Kurukshetra, on 11-12 October, 2004.
15. Delivered a lecture on “*WTO and Trade Related Investment Measures (TRIMs): Implications for Developing Economies Like India*”, to the students of Economics, at Government College, Kapurthala, on August 28, 2004
16. Delivered a lecture on *Globalisation and New Regionalism*, at a UGC General Orientation Course for college lecturers, organized at Academic Staff College, GND University, Amritsar, on 17 March 2004.
17. Delivered two lectures on *Globalisation and TRIMs; and WTO and India’s New Competition Policy*, at a UGC General Orientation Course, organized at Academic Staff College, GND University, Amritsar, on 26-27 April 2004.
18. Delivered a lecture on “*TRIMs Under WTO and Measures to Make Foreign Investment More Conducive for Sustainable Development of the Developing Countries*” at a UGC Refresher Course on “Economic Reforms and Sustainable Development in India” organized by Punjab School of Economics, GND University, Amritsar, during October 2003.
19. Delivered two lectures on *India’s Competition Policy and Globalisation and the Emergence of New Regionalism*, at a UGC Refresher Course organized at H.P. University, Shimla, during May, 2003
20. Delivered two lectures on, “Globalisation and the Emergence of New Regionalism: Causes and Compatibility” at a UGC Refresher Course on *Globalisation and the Regional Economy: Issues and Prospects*, organised by Punjab School of Economics, GND University, Amritsar, during August-September, 2002.
21. Delivered lectures on, "India's Development Model", and "WTO Obligation, Globalisation and the Significance of Agricultural Research in India and Mexico" at the Department of Economics, Agricultural University of Chapingo, Chapingo (Mexico State); El Collegio of Michoacan, Zamora (Michoacan), and the Department of Pacific Studies, University of Guadalajara, Guadalajara (Jalisco), Mexico during October-November 2001.
22. Delivered lectures on "Globalization and the Need to Expand Agricultural R&D in India" and " Globalization and the Need to Strengthen Linkages between Defence R&D and Civil Manufacturing in India", at a U.G.C. Refresher Course on "Contemporary Issues Facing Indian Economy", Organised by Punjab School of Economics, G.N.D.U., Amritsar During Sept. 2001.
23. Delivered a lecture on “Globalisation and Industry” at a business meeting of Amritsar Industries Association, Amritsar, during August 2000.

24. Delivered a lecture “ India’s Globalisation: Nature and Trends “ at a UGC Refresher Course on the theme “ India’s Development Experience and Challenges for Future” at Academic Staff College, GND University, Amritsar, during August 2000.
25. Delivered two lectures on “Key Economics Issues for Developing and Industrial Countries", at Institute of Technology Management, Mussoorie, during 25-26, October 1999.
26. Delivered two lectures on "Effectiveness of Technology Transfer from Lab.-to-Industry: Concepts & Implications”, at Institute of Technology Management (DRDO), Mussoorie, during 5-August, 1999
27. Delivered two lectures on “Globalisation and its Implications for the Indian Economy”, at a UGC Refresher Course on the theme, “Economic Theory, Globalisation and Economic Policy”, organised by the Economics Department, Punjabi University, Patiala, on 19 Dec., 1998.
28. Delivered a lecture on “Globalisation : Concept and Implications” at UGC Refresher Course on “Macro Economic Management in an Open Economy” organised at Academic Staff College, GND University, Amritsar, during May, 1998.
29. Delivered a lecture on “India’s Economic Reforms and Industrial Development”, to the students of International Marketing at University of Wisconsin, Platteville ( WI), U.S.A., during April 1997.
30. Delivered lectures to the students and faculty of Chui University; Kyrgyz State National University and Institute of Economic and Politics, Bishkek, Republic of Kyrgyzstan, on the theme of “Economic Reforms and Industrial Performance and Industrial R&D in India”, during 25 October to 2 December, 1996.
31. Delivered a lecture on “*India’s New Economic Policy and Industrial R&D*”, at the Rotary Club, Amritsar in October 1996.
32. Delivered lectures on the theme “Economic Reforms and Industrial R & D in India”, at UGC Refresher Course *Current Issues in Indian Economy*, organised at Academic Staff College, Guru Nanak Dev University, Amritsar during August, 1996.
33. Participated in a T.V. discussion on the topic “*Industrial Infrastructure in Punjab*”, telecast from Jalandhar Doordarshan in July 1995.
34. Delivered lectures on the theme “Development Strategy, Technology Policy and Import of Technology in India” at UGC Refresher Course on *Applied Economics and Computer Applications*, organised at Academic Staff College, GND University, Amritsar during April, 1994.

## Experience of Supervising Research

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Year	Class	Title of Dissertation Supervised
To be Submitted	Ph.D.	Effectiveness of India’s New Competition Policy in Augmenting the Competitiveness of Indian Industry.

-do-	-do-	Regional Distribution of FDI in India with Special Reference to the Punjab Economy: Patterns, Constraints and Some Recent Policy Initiatives.
-do-	-do-	Growth and Performance of ICT Sectors in an Emerging Knowledge Economy like India: Problems and Constraints In the Context of WTO and Globalisation
2010	M.sc (Hons)	An Analysis of the Nature, Pattern and Extent of Technical Workforce Employed in India's IT Sector
2010 A	MBE	An Economic Analysis of Machine Tool Industry of Punjab: Case Study of Batala
2009	-do-	Generation of New Technologies for Making Industrial Development Sustainable in India
2009	M.Sc. (Hons.)	Sustainability of Industrial Development in India Since Economic Reforms: Problems, Measures and Policy Implications
2009	M.Sc (Hons.)	An Analysis of the Problem of Labour Absenteeism and Turn-Over in Indian Manufacturing: A Case Study of Amritsar
2008	M.Sc. (Hons.)	Technology Transfer From Russia to India: Nature, Extent and Problems
2008	M.B.E.	Customers' Perceptions and Attitudes Towards Service Quality of IDBI Bank- A Case Study of Amritsar City
2008	M.B.E.	A Critical Assessment of Social Security Measures For Unorganised Sector Workers in India
2008	M.sc (Hons)	Problems and Prospects of Rural Tourism in Punjab
2008	M.sc (Hons.)	The Growth and Performance of IT Industry in Punjab
2007	M.Sc. (Hons.)	Prospects of Indian Textile Industry Since the Scrapping of Multi-fiber Agreements
2006	M.Sc. (Hons.)	Unemployment and the Employment Policy in India Under NREGP
2006	M.Sc. (Hons.)	Globalisation and the Competitiveness of Indian Industry

2005	M.B.E.	TRIPS and India: Contemporary Issues and Controversies.
2004	M.Sc. (Hons.)	WTO and Trade Related Investment Measures: Implications and Prospects for Economies like India
2004	M.B.E.	Impact of China's Entry in WTO on India's Trade.
2004	Ph.D.	Child Labour in Agriculture and Allied Activities in Punjab.
2004	M.Sc. (Hons.)	Globalisation and the Re-emergence of New Regionalism: Causes, Problems and Prospects.
2002	M.Sc. (Hons)	Economic Reforms and the Need for a Conducive Competition Policy in Indian Manufacturing.
2002	-do-	India's International Cooperation in Science and Technology: Problems and Prospects.
2001	M.Sc. (Hons)	What Makes a Country Good Host for Foreign Direct Investment: The Case of India.
2001	- Do -	Nature and Growth of Industrialisation in Punjab: Past Problems and Future Initiatives.
2001	Ph.D.	Determinants of Technological Diffusion in Indian Manufacturing - A Study of Selected Industries.
2000	M.Sc. (Hons)	Institutional Financial Assistance for the Technological Modernisation of Small Scale Sector in India.
1999	M.Sc. (Hons.)	Pattern and Growth of Research and Development Expenditure In India with Reference to New Economic Policy
1998	M.Sc. (Hons.)	An Analysis of the Nature and Extent of India's Globalisation (1970-96)
1998	M.Sc. (Hons.)	The Role and Performance of Punjab State Council for Science & Technology.
1997	M.Sc. (Hons.)	Impact of Industrial Deregulation on the Performance of Indian Industry.
1997	M.Sc. (Hons.)	Performance of Privatised Industry in Punjab: A case study of PSIDC.
1996	M.Sc. (Hons.)	Technological Modernisation of the Small Industrial Sector in India: Problems, Policies and Prospects.
1996	M.Sc. (Hons)	Growth and Structure of India's Scientific and Technical

		Manpower and Employment Pattern
1996	-Do-	Pattern and Growth of India's Foreign Technical Collaborations with Special Reference to New Economic Policy.
1993	-Do-	Working and Performance of Punjab State Industrial Development Corporation
1992	-Do-	Technological Adaptation in Indian Manufacturing: A Case Study of Cycle Industry in Ludhiana
1991	-Do-	Evolution and Growth of Industrial Policy in India and Its Consequences for Industrial Development
1988	-Do-	Pattern of Industrialisation and Industrial Productivity in India
1986	-Do-	Structure, Growth and Performance of Employment Exchanges in Punjab
1985	-Do-	Role of State in Industrial Service and Consultancy - A Case Study of Industrial Development Centres and Quality Marking Centres in Punjab
1984	M.Sc. (Hons.)	Economics of Newspaper Industry in Punjab & U.T. Chandigarh
1983	M.Phil	A Comparative Study of Public and Private (Bus) Road Transport in Punjab
1983	M.Sc. (Hons.)	A Study of Incentives for the Industrial Development of Punjab
1983	M.Phil.	Lead Bank Scheme - A Comparative Study of Amritsar and Kapurthala Districts
1981	M.Sc. (Hons.)	Working and Performance of Public Industrial Enterprises in Punjab
1980	M.Sc. (Hons.)	Corporate Finance in India - A Case Study of Chemical Industry

## Papers Presented/Accepted in Seminars/Conferences

S. No	Seminar/Conference	Organised by	Year	Paper Presented/Accepted
1.	International Conference on "Peace, Security and Economic Development in South Asia"	Association of Asia Scholars and Department of Defence and Strategic Studies, Punjabi University, Patiala	March 4-6, 2011	Acted as discussant in the session on, <i>Security, Science Policy and Economic Development in South Asia</i> and chaired a session on "Peace, Human Security and Economic Development in South Asia"
2.	National Seminar on <i>Challenges to Inclusive Growth for an Emerging Economy like India</i>	New Delhi Institute of Management, New Delhi	25 February, 2011	"Competitiveness of Indian Industry: A Comparative Analysis of Pre and Post Reforms Periods"
3.	92nd Annual Conference of The Indian Economic Association	School of Management, KIIT University, Bhubaneswar	27-29 December, 2009	"Geo-Economic Dynamics of the ICT Sectors Location in India: Determinants and Implications for Growth"
4.	Corporate Sector, Industrialisation and Economic Development in India	Institute for Studies in Industrial Development, New Delhi	March 27-28, 2009	"Structure, Growth and Performance of India's ICT Sectors since the Economic Reforms: Lacunae and Imperatives"
5	UGC National Seminar on "New Economic Order and Human Development"	KRM DAV College, Nakodar	21-22 February, 2009	Presented Key Note Address on the theme of The Stock of India' Scientific and Technical Manpower: Implications for Employment and Growth, and also chaired a session.
6	91 <sup>st</sup> Annual Conference of The Indian Economic Association	IEA at, Department of Economics, University College of Social Sciences and Humanities, M. S. University, Udaipur	27-29 December, 2008	"Nature, Composition and Extent of the Stock of India's Educated Manpower: Problems and Implications for Growth and Employment"
7	Golden Jubilee Conference of the Indian Society of Labour Economics	ISLE at Giri Institute of Development Studies, Lucknow	13-15 December, 2008	"Stock of Technical Manpower in India: Prospects for Employment in the Emerging Labour Markets" Paper accepted but could not be presented.

8	Asian Social Protection in Comparative Perspective	National University of Singapore, Singapore; and Association for Public Policy Analysis and Management	7-9 January 2009	“A Critical Assessment of the Social Security Measures for the Unorganised Sector Workers in India” Paper accepted but could not be presented.
9.	6 <sup>th</sup> IIDS International Conference on Development	International Institute for Development Studies at University of Technology, Mauritius	15-19 July, 2008	“Globalisation; The Emergence of India’s Knowledge Economy, And the Role of ICT Sectors”
10	National Seminar on Moral Rights of Copy Right Holders	Kamla Nehru College for Women, Phagwara	March 24-25, 2007	“WTO, TRIPS and Implications for India’s Pharmaceuticals Industry”
11	UGC National Seminar on Rural Employment in Punjab: Challenges and Strategies	Punjab School of Economics, Guru Nanak Dev University, Amritsar	March 17-18, 2007	“Regional Perspective on Rural Industrialisation in India: The Case of Punjab Economy”
12	World Punjabi Conference on Exploring the Possibilities of Cooperation in Global Context	World Punjabi Centre, Punjabi University, Patiala (Punjab)	26-28 December, 2006	“Growth Prospects for Amritsar District due to the On-going Indo-Pak Peace Process”
13.	Globelics India 2006	Centre for Development Studies, Trivandrum, Kerala	October 4-7, 2006	“An Assessment of the Regional R&D Effort in India: An Inter-State Analysis of Some of the Selected Industrially Advanced States”
14.	XVI ISA World Congress of Sociology	University of Kwa Zulu Natal, Durban, South Africa	23-29 July, 2006	“Globalisation, Technology Intensive Exports and R&D Effort in an Emerging Knowledge Economy like India: The Case of some Selected Science Intensive Sectors”
15.	Fourth International Conference on Globalisation and Sectoral Development	Academy of International Business-India and Institute for Integrated Learning in Management, New Delhi	17-19 February, 2006	“Globalisation and the Competitiveness of Indian Industry”. Paper accepted but could not be presented.
16.	Ministry of HRD sponsored National Seminar on Intellectual Property Rights-	DAV College, Jullundur (Punjab)	29-30 January, 2006	“Implications of TRIPS for India’s Pharmaceutical Industry”.

	Implications, Regulatory Framework and Enforcement			
17.	UGC National Seminar on Changing Paradigm of Development under Globalisation and WTO Regime	KLSD College, Ludhiana (Punjab)	18-19 January, 2006.	Spoke on the Competitiveness of Indian Industry under Globalisation, and chaired one of the technical session
18.	42 <sup>nd</sup> Annual Conference of the Indian Econometric Society	Punjab School of Economics, Guru Nanak Dev University, Amritsar	5-7 January, 2006	Chaired a Technical Session on Industrial Economics
19.	37 <sup>th</sup> Annual and International Regional Science Conference	Indian Institute of Management, Bangalore	January 6-10, 2006.	“An Assessment of the Regional R&D Effort in India: An Inter-State Analysis of Some Selected Industrially Advanced States”. Paper accepted but could not be presented.
20.	88 <sup>th</sup> Annual Conference of the Indian Economic Association	School of Economics, Andhra University, Visakhapatnam (AP)	27-29 December, 2005	“WTO, TRIPS and Contemporary Issues and Implications for India’s Pharmaceutical Industry”
21.	47 <sup>th</sup> Annual Conference of the Indian Society of Labour Economics	Centre for Economic Studies and Planning, JNU, New Delhi	December 15-17, 2005	“Employment Trends in an Emerging Knowledge Economy Like India: The Case of some Selected Science Intensive Sectors” Paper accepted but could not be presented.
22.	11 <sup>th</sup> International Conference on Productivity and Quality Research	IIT, New Delhi.	December 12-15, 2005	“Globalisation and the Competitiveness of Indian Industry: Is it Adequately Prepared for the New Challenges?” Paper accepted but could not be presented.
23.	National Seminar on Tourism and Development	BBK DAV College for Women, Amritsar	3-4 October, 2005	Chaired one of the Technical Session
24.	National Seminar on WTO Provisions-Implications for the Indian Economy	SDSPM College for Women, Rayya (Amritsar)	16-17 September 2005.	“WTO Regulations, Employment and Exports from India’s IT Sectors: Problems and Prospects”
25.	National Seminar on Industrialisation, Globalisation and Punjab Industry	Lyallpur Khalsa College, Jullundur	12 February, 2005	“Rural Industrialisation in Punjab: Constraints and Prospects”

26.	46 <sup>th</sup> Annual Conference of The Indian Society Of Labour Economics.	Institute Of Development Studies, Jaipur	16-18 December, 2004	“Human Capital Base of the Indian Labour Market: The Case of India’s Scientific and Technical (S&T) Manpower Stock”
27.	National Seminar on Intellectual Property Rights in India in the Context of WTO.	Hans Raj Mahila Vidyalaya, Jullundur	19-20 October, 2004	WTO, TRIPs and India: Contemporary Issues and Controversies.
28.	ICSSR Seminar on Rural Development in Punjab	ICSSR and Punjab Development Society, at Punjab University, Chandigarh	March 27-28, 2004	“State of Farm Research in the Punjab Economy: Imperative for an Augmented Effort”
29.	UGC National Seminar on Opportunities and Challenges To Indian Business Under WTO Regime	Department of Commerce and Business Management, GND University, Amritsar	March 9-10, 2004	“WTO and India’s New Competition Policy: Emerging Challenges and Imperatives”.
30.	45 <sup>th</sup> Annual Conference of the Indian Society Of Labour Economics	Faculty of Arts, Jadavpur University, Kolkata	Dec. 15-17, 2003	“Changing Structure of Scientific & Technical Workforce In India’s Industrial Sector”
31.	National Seminar on Implications of Intellectual Property Rights: The Indian Scenario	Apeejay College of Fine Arts, Jullundur	29 Nov., 2003	“Globalisation and Re-Emergence of Regional Economic and Trading Organisations: Causes and Compatibility”
32.	Conference On Industrialisation Of the States In The Northern Region.	CRRID, Chandigarh.	March 15-16, 2003	Participated in discussions & Proceedings.
33.	85 <sup>th</sup> Conference of the Indian Economic Association.	Deptt. Of Economics, University of Kerala, Thiruvananthapuram.	Dec: 27-29, 2002	“Role of the State in Information Dissemination For Catalysing Technological Diffusion in Indian Manufacturing” (Paper accepted but could not be presented)
34.	National Seminar on Structure of Employment and its Interface with Technology: Present Status and Policy Imperatives for Productivity Enhancement	Deptt. of Social Sciences and Humanities, IIT, New Delhi	Mar 28-29, 2002	Technological Diffusion in Indian Manufacturing: Determinants and Policy Implications.

35.	National Seminar on Prospects of Industrial R&D in India under Globalisation.	Deptt. Of Humanities and Social Sciences, IIT, Kanpur.	6-7 Feb. 2001	“Globalisation, Indigenisation of Defence Production and the Need to close the Interface between Military R&D and Civil Manufacturing in India.
36.	IEA (83 <sup>rd</sup> ) Conference of the Millennium.	Jammu University, Jammu.	30 Dec 2000-1 Jan 2001	“WTO Obligations, Globalisation and the Imperative of an Exalted Agricultural Research in India”(paper accepted but could not be presented)
37.	42 <sup>nd</sup> Annual Conference of the Indian Society of Labour Economics.	ISLE and RD University, Jabalpur.	9-11 Dec, 2000	An Analysis of the Qualifications and Emoluments of the Research Personnel Employed in India’s S&T Sectors: A Cross Section Study.
38	Third Annual DSA Conference on Economic Theory and Policy.	The Centre for Economic Studies and Policy, School Of Social Sciences, JNU, Delhi.	Oct 28-30, 1999.	"An Analysis of the Nature and Extent of India's Globalisation (1970-96)"
39.	XV IACS International Conference on Canadian Studies	Centre for Canadian Studies, H.P. University, Shimla.	Apr 12-15, 1999	Indo-Canadian Technology Trade Since Independence: Trends and Prospects.
40.	National Seminar on Swadeshi Today	University Business School, Punjab University, Chandigarh.	23-24 Mar 1999.	Implications of India’s Global Orientation During the 90’s: Achievements and Pitfalls.
41	IEA81st (2 <sup>nd</sup> Amrit Jubilee) Conference	Banglore University, Banglore	26-28 Dec., 1998	Disparate Regional Technological Development in India: An Inter-State Analysis (Paper accepted, but could not be presented)
42.	National Conference on The Flow of Credit to Small Enterprises: Opportunities and Constraints.	Institute of Small Enterprises and Development, Cochin.	Aug 27-28, 1998	Institutional Financial Assistance for Technological Modernisation of the Small Industrial Sector in India: Opportunities and Constraints.
43.	International Conference on Europe and South Asia: 500 years	Institute of Social Science, New Delhi, at Calicut and Cochin	16-20 May, 1998	India’s Technology Trade with Western Europe since Independence: Trends and Prospects

44.	IEA Ist Amrit Jubilee (80th) Conference	Osmania University, Hyderabad	27-29 Dec, 1997	India's Economic Reforms and Foreign Technical Collaborations: Need for a Cautious Approach
45.	National Seminar on Emerging Trends in the Indian Economy	Punjab School of Economics, G.N.D.University, Amritsar	28-29 Mar, 1997	Impact of Industrial Deregulation on Industrial Performance in India (1985-95)
46.	Seventy Ninth Annual Conference of the IEA	IEA, at Jiwaji University, Gwalior	27-29 Dec., 1996	The Globalisation Syndrome and Industrial R & D in India: Implications & Prospects.
47.	Third International Conference of the Third World Science, Technology and Development Forum.	University of Natal, Pietermaritzburg, South Africa	23-26 Sept, 1996	India's New Economic Policy and Industrial R & D: Implications and Prospects.(Paper accepted but could not be presented).
48.	Problems and Challenges of Technology Transfer, In-House R & D and Indigenous Technology For Indian Industry in the 1990s.	Department of Humanities and Social Sciences, IIT, Bombay.	22-24 Jan, 1996	Factors Influencing The Transfer of New Technologies From R & D Institutions to Manufacturing In India (Paper accepted but could not be presented).
49.	UGC National Seminar on Economic Liberalisation in India: Challenges Ahead	Punjab School of Economics, GND University, Amritsar.	25-27 Mar, 1995	Pattern & Growth of India's Foreign Technical Collaborations: Scenarios before & after New Economic Policy.
50.	The First World Congress on Holistic Business Management	Faculty of Commerce, University of Western Sydney, Australia.	10-14 Jan. 1995.	Transferring New Technologies From Government R&D Institutions to Manufacturing in India: Policies, Problems and Prospects.
51.	35th Annual Conference of Indian Society of Labour Economics	Gandhi Labour Institute, Ahmedabad The	21-23 Jan., 1994.	Generation and Employment of S & T Manpower: A Step Towards Technological Self-Reliance
52.	75th Annual Conference of Indian Economic Association	Devi Ahalaya University, Indore	Dec. 30- Jan. 1 1992-93.	Liberalisation and Import of Foreign Technology in India: Prospects and Implications
53.	Twenty Fourth Annual Conference	Science Association, India, at Giri Institute, Lucknow.	Oct. 25-26 1991.	Research and Development in India: A Regional Perspective.
54.	The Challenges of Economic Policies in the	Punjabi University Regional Centre,	Mar 1991.	Why should a Developing Country Aspire for

	Nineties	Bathinda		Technological Self Reliance: A Case of India's Industrial Technological Development Strategy.
55.	XIVth Indian Social Science Congress	Indian Academy of Social Sciences, Allahabad, at Gujarat Vidyapeeth, Ahmedabad	Dec. 1989.	Industrial Development Strategy and Growth & Structure of Indian Industry (1973-85).
56.	National Seminar on Structural Changes in Indian Economy.	Punjab School of Economics, GND University, Amritsar.	Nov. 1989.	Reverse Flow of Capital & Tech. From India: A Case of Economic Transformation.
57.	National Seminar on Dynamics of Business Environment and Policy in India.	Deptt. Of Business and Commerce, GNDU, Amritsar	March 1989	Reflections on the Utilisation of Institutional R&D in Indian Industry.
58.	National Seminar on Contemporaneous Issues in the Indian Economy.	Dept. of Eco., Punjabi University, Patiala.	Nov. 1988	Relevance of Public Employment Service in the Punjab Economy.
59.	XIIIth Indian Social Science Congress	Indian Social Sc. Academy, Allahabad, at JNU, New Delhi.	Nov. 1988.	Science and Technology in India: Dichotomy of Policy and Practice
60.	Seminar on Management of Indian Economy: Policy Perspectives.	Deptt. Of Business & Mgt., Punjabi University, Patiala.	Nov.1988	Technological Self Reliance and Industrial R & D in India.
61.	Strategy for India's Development: An Economic & Social Perspective.	Deptt. Of Eco. Punjab University, Chandigarh.	March 1987	State Industrial Service and Consultancy in Punjab - A Case Study.
62.	Urbanisation and Regional Development	Deptt. Of Eco., Govt. College, Dharamsala.	Dec.1986	Pattern and Growth of Urban Amenities in Punjab - A Case Study.
63.	All India Seminar on Industrial Relations.	MONIRBA, Allahabad University, Allahabad.	Dec.1985.	Public and Social Control of Industrial Relations.
64.	North-West Region: Resource Mobilisation for Development	Punjab School of Economics, GND University, Amritsar.	May 1985	An Analysis of Tax Evasion in Punjab.

65.	Public Sector and Development	Deptt. Of Public Admn, Punjab University, Chandigarh.	Feb.1985	Role and Development of Indian Tourism with Special Reference to Current Problems and Prospects of Tourism in J&K - A Case of Public Sector Service.
66.	Problems and Prospects of Industrialising Punjab.	Punjab School of Economics, GND University, Amritsar.	April 1981	Working and Performance of Public Industrial Enterprises in Punjab.
67.	Punjab Economy in Retrospect and Prospect.	-Do-	April 1980	A Strategy for Industrial Development of Punjab.