

**List of Publications**  
**of**  
**Dr. Amarjit Singh Sethi**  
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**(a) Book** : ONE

1. Sethi, A.S. (1997), **Dynamics of National Income** (New Delhi, Deep and Deep Publications).

**(b) Full Papers Published** : SIXTY TWO

1. Sethi, A.S. and A.K. Srivastava (1987), "Ratio Estimator with Post-stratification Design Involving Double Sampling Approach", *J. Indian Soc. Agri. Stats.*, 39(1): 34-48 (Prize-Winning Paper).
2. Sethi, A.S., R.P. Mor and G.C. Aggarwal (1985), "A Model to Predict Wheat emergence from Soil Temperature and Soil Moisture", *Proc. Indian Natn. Sci. Acad.*, B51(1): 117-22.
3. Sethi, A.S. and G.C. Aggarwal (1986), "A Dynamic Model to Predict Wheat Emergence from Soil Moisture and Temperature", *Proc. Indian Natn. Sci. Acad.*, B52(4): 495-8.
4. ————— (1989), "A Dynamic Wheat Emergence Model: Estimation of Critical Soil Moisture Contents", *Proc. Indian Natn. Sci. Acad.* B55(1): 69-72.
5. Sethi, A.S. (1985), "A Modified Approach to Determine the Optimum Size and Shape of Plots in Field Experiments on Maize Grown on Terraced Land", *Indian J. Agri. Sci.* 55(1): 48-5
6. ————— (1987), "An Improvement in the Modified Approach to Determine Optimum Size and Shape of Plots in the Field Experiments on Maize Grown on Terraced Land", *Indian J. Agri. Sci.*, 57(1): 62-3.
7. Sethi, A.S., M.L. Kapur and R.S. Kanwar (1989), "Determination of Optimum Size and Shape of Experimental Plots for Sugarbeet (*Beta Vulgaris*)", *Indian J. Agri. Sci.* 59(1): 36-41.
8. Sethi, A.S. and M.L. Kapur (1995), "Optimum Size and Shape of Experimental Plots for Sugarcane Grown Under Punjab Conditions", *PAU Journal of Research* 32(4): 418-25.
9. Sethi, A.S., R.S. Kanwar and Harjinder Singh (1990), "Estimation of Optimum Sample Size for Comparing Cane Characters of Sugarcane Varieties", *Crop Improvement* 17(2): 155-60.
10. Sethi, A.S. and J.N. Garg (1981), "An Alternative Approach for Estimating Production and Productivity of Black Pepper", *Agri. Situation in India* 35(8): 619-21.
11. Sethi, A.S. and R.S. Kanwar (1986), "Diversification of Factors Affecting Sugarcane and Sugar Production in India", *Agri. Situation in India* 40(12): 1103-06.
12. ————— (1988), "Trend Analysis and Relative Contribution of the Factors Affecting Sugarcane and Sugar Production in India", *Agri. Situation in India* 42(9): 707-10.
13. Kanwar, R.S., P.S. Dhillon and A.S. Sethi (1984), "Disease Incidence in Sugarcane in Punjab",

14. Sethi, A.S. and B.S. Kanwar (1989), "Irrigation Potential of *Kuhls* and its Impact on Crops Productivity — A Case Study of Himachal Pradesh", in V.S. Mahajan (ed.) *Agriculture and Rural Economy in India* (New Delhi, Deep and Deep Publications): 170-79.
15. Sethi, A.S., O.C. Kapur and B.S. Kanwar (1986), "Some Preliminary Studies on Soil Fertility Variation in Terraced Land", *PAU Journal of Research* 23(3): 414-9.
16. Sharma, P.K., A. S. Sethi and V.K. Mishra (1980), "Effect of Organic Matter, Clay and Silt on Some Physical Parameters and CEC in Some Acid Soils of Himachal Pradesh", *Indian J. Agri. Res.* 14(4): 241-6.
17. Sharma, P.K. and A.S. Sethi (1985), "Factors Affecting Potassium Fixing Capacity in Some Hill Acid Soils of North-West India", *Indian J. Agri. Res.* 19(4): 209-14.
18. Gupta, R.D., K.K. Jha, A.S. Sethi and G.S. Saharan (1977), "Presence of Azotobacter in Relation to Physico-Chemical Properties of some North-Indian Soils", *Proc. Indian Natn. Sci. Acad.* B86 (6): 389-95.
19. Gupta, R.D., K.K. Jha, A.S. Sethi and S.P. Dev (1989), "Distribution of Microorganism in Himalayan Soils: Effect of Soil Depth, pH, Organic Carbon and Moisture Content", *Indian J. Ecology* 16 (1): 81-3.
20. Singh, D.P. and A.S. Sethi (1989), "A Statistical Model to Assess the Effect of Leaf Defoliators on Sugarbeet Characteristics" *J. Insect Sci.* 6 (1): 72-4.
21. Sethi, A.S. and P.S. Raikhy (1992), "Structural Transformations in National Income of India", *Indian J. Quant. Econ. (An International Journal of Development Economics)* 8 (1 & 2): 49-64.
22. ————— (1993a), "Structural Changes in National Income of India", in R.S. Bawa and P.S. Raikhy (eds.), *Structural Changes in Indian Economy* (Amritsar, G.N.D. University Press): 54-71.
23. ————— (1993b), "Structural Transformations of State Income — Experience of the Punjab Economy Since 1970-71", *PSE Economic Analyst*, 14 (1 & 2): 87-97.
24. Sethi, A.S. (1997), "Behaviour of Savings, Consumption and Investment in India", in *the I.E.A. First Amrit Jubilee Conference Volume*: 448-54.
25. Sethi, A.S. and P.S. Raikhy (1998), "Morphology of the Pattern of Development in the States of India", in *the I.E.A. Second Amrit Jubilee Conference Volume*: 464-70.
26. ————— (1999), "Prospects for Employment in India Under the New Economic Policy", in P.P. Arya and B.B. Tandon (eds.), *Multinationals vs. Swadeshi Today — A Policy Framework for Economic Nationalism* (New Delhi, Deep and Deep Publications): 284-94.
27. Sethi, A.S. (1999), "Causal Behaviour between Income and Saving in India — Evidence from Cross-Correlation Approach", *Anvesak*, 29(2): 43-56.
28. Sethi, A.S. and P.S. Raikhy (2000), "Structural Analysis of Punjab Economy — Implications for

- Policy”, in R.S. Bawa and P.S. Raikhy (eds.), *Punjab Economy — Emerging Issues* (Amritsar, G.N.D. University Press): 502-19.
29. Raikhy, P.S. and A.S. Sethi (2000), “Structural Adjustment, Development and Employment — Recent Indian Experience”, in P.D. Hajela and M.P. Goswami (eds.), *Economic Reforms and Employment* (New Delhi, Deep and Deep Publications): 250-64.
  30. Sethi, A.S. (2000a), “Economic Disparities in Punjab — An Inter-District Analysis”, in R.S. Bawa and P.S. Raikhy (eds.), *Punjab Economy — Emerging Issues* (Amritsar, G.N.D. University Press): 349-64.
  31. ————— (2000b), “Forecasting Savings in India in Post-Liberalisation Scenario — A Note”, *Indian J. Quant. Econ. (An International Journal of Development Economics)* 14 (2): 159-66.
  32. Sethi, A.S. and R.S. Bawa (2001), “Component-Wise Ratio and Regression Estimation”, in Om Parkash (ed.), *Current Trends in Information Theory, Statistics and O.R.* (Amritsar, G.N.D. University Press):153-60.
  33. Sethi, A.S. and P.S. Raikhy (2001a), “Changing Sources of Economic Growth in India: Implications For Second Generation Reforms”, in Ruddar Datt (ed.) *Second Generation Economic Reforms in India* (New Delhi, Deep and Deep Publications): 120-37.
  34. ————— (2001b), “Forecast Modelling of National Income — Box-Jenkins' Approach”, in Om Parkash (ed.), *Current Trends in Information Theory, Statistics and O.R.* (Amritsar, G.N.D. University Press): 198-210.
  35. Sethi, A.S. and Ramanjeet Kaur (2001), “Employment Generation for Poverty Alleviation: Post-Liberalisation Regime Experience in India”, Publication in the Full Form in the 84<sup>th</sup> I.E.A. Conference Volume: 574-91. (Also included in Ashok Mathur and P.S. Raikhy (eds.), *Economic Liberalisation and its Implications for Employment* (New Delhi, Deep and Deep Publications, Pvt. Ltd.): 117-141.
  36. Sethi, A.S. (2001a), “Box-Jenkins' Technique for Short-Term Forecasting — An Application to India's Domestic Savings” in P.P. Arya and Yesh Pal (eds.), *Research Methodology in Management: Theory and Case Studies* (New Delhi, Deep and Deep Publications, Pvt. Ltd.): 182-92.
  37. ————— (2001b), “Globalisation and the Emerging Pattern of Consumption Expenditure — The Indian Experience”, *The Journal of Indian Association for Research in National Income and Wealth*, 23 (2): 145 – 60.
  38. Sethi, A.S. and P.S. Raikhy (2002), “Economic Development and Poverty — An International Experience” *Anvesak*, 32 (2): 27-37.
  39. Sethi, A.S. (2003a), “Determinants of Poverty at the Global Level (With Special Reference to India)”, in the 86<sup>th</sup> Annual Conference Volume of the Indian Economic Association : 480-91.
  40. ————— (2003b), “Consumption Expenditure and Income in India: Short-Term Forecasts and Causality Behaviour” *Indian J. Quant. Econ. (An International Journal of Development Economics)*, 17 (1 & 2) : 61-90.
  41. ————— (2003c), “Inter-Sectoral Linkages in Haryana's Income — A Temporal Analysis”, *Artha Vijnana* 45 (3 & 4): 147-60.

42. Sethi, A.S. and Baljit Kaur (2004), "Public Expenditure and National Income in India: An Investigation of Structural Changes and Causality", *The Journal of Indian Association for Research in National Income and Wealth*, 26 (1 & 2): 45-57.
43. Sethi, A.S. (2005a), "Globalisation and the Changing Productivity Performance in the Indian Economy — A Sectoral Analysis", in B.S. Bhatia and Balram Dogra (eds), *Global Competitiveness and Productivity* (New Delhi, Deep & Deep Publications Pvt. Ltd): 40-6.
44. ————— (2005b), "Poverty at the Global Level with Reference to India", in K. Nageswara Rao (ed), *Poverty in India: Global and Regional Dimensions* (New Delhi, Deep & Deep Publications Pvt. Ltd): 03-23.
45. ————— (2006), "Trends in Inter-Regional Divergences in Electricity Consumption during Post-Reforms Period: A Case of Punjab and Haryana" in S. Kaushil and Surat Singh (eds.), *Reforms, Rural Development and the Human Face: Perspectives, Perceptions, Prescriptions* (New Delhi, Deep and Deep Publications, Pvt. Ltd.): 419-22.
46. Sethi, A.S. and Rimpay (2007), "Tax-GDP Interrelationships: The Indian Experience", in the *Proceedings of the 43<sup>rd</sup> Annual Conference of the Indian Econometric Society*, held at IIT, Mumbai (Jan 05-07).
47. Sethi, A.S. and Aman Gill (2007), "Co-Operative Credit and Rural Development in Punjab: Implications for Employment", included in the *90<sup>th</sup> Conference Volume of the Indian Economic Association, Part-I*: pp 569-82.
48. Sethi, A.S. (2008), "Intellectual Property Rights and Pharmaceutical Sector in India", in Prankrishn Pal (ed.), *Intellectual Property Rights in India* (New Delhi, Deep & Deep Publications Pvt. Ltd): 144-55.
49. ————— (2008), "Some Methodological Aspects of Rates of Growth Computations: Limitations and Alternatives", *South Asia Economic Journal*, 9, (1): 195-209.
50. Sethi, A.S. and Gurwinder Kaur (2008), "Growth Performance and Structural Changes in Income of India", included in the *Proceedings of the 44<sup>th</sup> Annual Conference of the Indian Econometric Society*, held at the University of Hyderabad, Hyderabad (Jan 03-05).
51. Kaur, Baljit and A.S. Sethi (2008), "Liberalisation and Social Sector Expenditure in India: An Inter-state Analysis", *The Journal of Indian Association for Research in National Income and Wealth*, 29, (1): 79-92.
52. Sethi, A.S. and Baljit Kaur (2008), "Social Sector Expenditure in India: An Examination of Inter-state Divergences", included in the *Conference Volume of 91<sup>st</sup> Annual Conference of the Indian Economic Association, Part-I*: 229-41.
53. Sethi, A.S. and Sunaina (2008), "Capital Formation in Punjab and Haryana – A Comparative Analysis", included in the *Proceedings of the 27<sup>th</sup> Annual Conference of Indian Association for Research in National Income and Wealth* held at the Institute for Social and Economic Change, Bangalore (Nov 27-29): A7, 01-22.
54. Sethi, A.S. (2009), "Trends in Urban Poverty in India", in Ranvinder Singh Sandhu, Jasmeet Sandhu and Balwinder Arora (eds.), *Urban Poverty in Developing Countries: Issues and Strategies for Sustainable Cities* (New Delhi, Bookwell).
55. Sethi, A.S. and Gagandeep Taneja (2009), "Growth and Transformations in Agricultural Output

and Inputs in India: Need for Structural Adjustments”, included in the *Conference Volume of 92<sup>nd</sup> Annual Conference of the Indian Economic Association, Part-II*: 425-40.

56. Sethi, A.S. and Sunaina (2009), “Capital Formation in Punjab and Haryana – A Comparative Analysis”, *Journal of The Indian Association for Research in National Income and Wealth*, 31 (1): 34-52.
57. Sethi, A.S. and Gurwinder Kaur (2010), “Some Dynamic Aspects of Net Domestic Product in India – A Sectoral Analysis” Included in the *Proceedings of the 28<sup>th</sup> Annual Conference of the Indian Association for Research in National Income and Wealth* held at the Centre for Development Studies, Thiruvanthapuram (January 08-10): Article No. F-5.
58. Sethi, A.S. and Amardeep Kaur (2010), “Inter-Sectoral Linkages in India: An Evidence from Time Series Analysis of Quarterly GDP”, Included in the *Proceedings of 46<sup>th</sup> Annual Conference of The Indian Econometric Society*, held at the University of Jammu, Jammu (March 04-06).
59. Sethi, A.S. (2010), “Some Further Aspects of Rates of Growth Computations”, *Journal of International Economics*, 1 (2): 57-70.
60. Sethi, A.S. and Navpreet Kaur (2010), “Environmental Degradation — A Case Study of Ambient Air Quality in Some Industrial Pockets of Punjab”, included in the *Proceedings of National Seminar on Management of Natural Resources and Environment in India*, Organised by GAD Institute of Development Studies, Amritsar: 564-75.
61. Sethi, A.S. and Shuchi Mehra (2011), “Urbanisation in India with Special Reference to Punjab: Need for Sustainable Development”, Accepted for Inclusion in the *Proceedings of 47<sup>th</sup> Annual Conference of The Indian Econometric Society*, to be held at Devi Ahilya University, Indore (January 6-8, 2011).
62. Sethi, A.S. and Ritu Pandhi (2011), “Differential Inequalities in Calorie Intake among Indian States: Evidence From Different Rounds of NSS”, included in the *Proceedings of the Annual Conference of the Indian Association for Research in National Income and Wealth* at the Centre for Economic and Social Studies, Hyderabad (March 11-13): Article No B1.

**(c) Paper Communicated**

: TWO

1. ਸੇਠੀ , ਅਮਰਜੀਤ ਸਿੰਘ (2009), “ਪੂੰਜੀ ਨਿਰਮਾਣ ਦੇ ਪੱਖੋਂ ਕੀ ਪੰਜਾਬ ਰਾਜ ਠੀਕ ਦਿਸ਼ਾ ਵਲ ਚਲ ਰਿਹਾ ਹੈ: ਇਕ ਤੁਲਨਾਤਮਿਕ ਵਿਸ਼ਲੇਸ਼ਣ”, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ ਵੱਲੋਂ ਪ੍ਰਕਾਸ਼ਿਤ ਪੁਸਤਕ।
2. Sethi, A.S. and Samita (2009), "Performance of Small-Scale Agro-Based Industry in Punjab" , to the *Artha Vijnana*.

**(d) Papers Contributed for/Presented in Conferences/Seminars and Abstracts Published**

: NINETY TWO

1. Sethi, A.S. and J.N. Garg (1974), “Procedures for Estimating Pepper Production” in the *28<sup>th</sup> Annual Conference of the I.S.A.S.* at HAU, Hissar.
2. Sethi, A.S. and A.K. Srivastava (1978), “Ratio Estimation with Post Stratification”, in *32<sup>nd</sup> Annual Conference of the I.S.A.S.* at PAU, Ludhiana.

3. Sethi, A.S., R.P. Mor, G.C. Aggarwal and B.S. Kanwar (1979), "Wheat Emergence as Affected by Soil Temperature and Moisture", in *44th Annual Convention of the Ind. Soc. Soil Sci.* at MAU, Parbhani.
4. Sethi, A.S. (1981). "Parameters Estimation of Multiple Logistic Growth Model", in *35th Annual Conference of the I.S.A.S.* at IASRI, New Delhi.
5. Sethi, A.S. (1982), "Stratification as a Resort to Improve Efficiency -- An Empirical Investigation", in *36th Annual Conference of the I.S.A.S.* at Rahuri.
6. Sethi, A.S. (1984), "On the Fitting of Growth Models for Wheat Emergence in Relation to Time, Temperature and Soil Moisture Content", in *38th Annual Conference of the I.S.A.S.*, at ISI, Calcutta.
7. Sethi, A.S. and B.S. Kanwar (1989), "Irrigation Potential of Kuhls and its Impact on Crops Productivity in the Palampur Region of Himachal Pradesh", in *the ICSSR Sponsored Seminar on Socio-Economic Development in North-West Region of India*, at Layallpur Khalsa College, Jalandhar.
8. Sethi, A.S. and P.S. Raikhy (1989), "Structural Changes in National Income of India" in the *National Seminar on Structural Changes in the Indian Economy*, at the Punjab School of Economics, G.N.D. University, Amritsar.
9. \_\_\_\_\_ (1993a), "Structural Changes in the Indian Economy and Relevance of the New Economic Policy", in the *National Seminar on India's New Economic Policy*, at Punjabi University Guru Kashi Regional Center, Bathinda.
10. \_\_\_\_\_ (1993b), "Structural Transformations in State Income: Experience of the Punjab Economy Since 1970-71", in the *National Seminar on the Punjab Economy: Performance and Potentials*, at the Punjab School of Economics, G.N.D. University, Amritsar.
11. \_\_\_\_\_ (1995), "Structural Distortions and Liberalisation Policy in India", in the *National Seminar on Liberalisation Policy in India — Challenges Ahead* at the Punjab School of Economics, G.N.D. University, Amritsar.
12. Sethi, A.S. and Geeta (1996), "Economic Disparities among Punjab and Haryana — A Discriminant Analysis Approach", in the *28<sup>th</sup> Regional Science Conference on Emerging Trends in Regional Development and Planning* at the G.N.D. University, Amritsar.
13. Sethi, A.S. and Varinder Kumar (1996), "Inter-District Divergences in Economic Indicators in Punjab — A General Classificatory Approach", in the *28<sup>th</sup> Regional Science Conference on Emerging Trends in Regional Development and Planning* at the G.N.D. University, Amritsar.
14. Sethi, A.S. (1997), "Behaviour of Savings, Consumption and Investment in India — Examining Alternative Hypotheses", in the *First Amrit Jubilee (80<sup>th</sup>) Annual Conference of the Indian Economic Association* at the Osmania University, Hyderabad.
15. \_\_\_\_\_ (1998), "Forecasting Savings in India in Post-Liberalisation Scenario", Accepted for Presentation in the *International Seminar on Recent Trends of Economic Reforms in SAARC Region* at the Institute of Bangladesh Studies, Rajshahi University, Bangladesh.

16. Sethi, A.S. and P.S. Raikhy (1998a), "Morphology of the Pattern of Development in the States of India" at the *Second Amrit Jubilee (81<sup>st</sup>) Annual Conference of the Indian Economic Association* at Bangalore University, Bangalore.
17. ————— (1998b), "Employment Scenario in the Indian Economy — Perspective for the 21-st Century" in the *30-th Regional Science Conference* at Utkal University, Bhubneshwar.
18. ————— (1998c), "Liberalisation Policy in India — Implications for Employment Generation" in the *ICSSR Sponsored Seminar* at the Govt. College for Women, Jammu.
19. Sethi, A.S. and R.S. Bawa (1999), "Component-Wise Ratio and Regression Estimation", in the *Third Annual Conference of the Indian Society of Information Theory and Applications*, at the Deptt. of Mathematics, GND University, Amritsar.
20. Sethi, A.S. and P.S. Raikhy (1999a), "Forecast Modelling of National Income — Box-Jenkins' Approach", in the *Third Annual Conference of the Indian Society of Information Theory and Applications*, at the Deptt. of Mathematics, GND University, Amritsar.
21. ————— (1999b), "Prospects of Employment in India under the New Economic Policy", in the *National Seminar on Swadeshi Today* at University Business School, Punjab University, Chandigarh.
22. ————— (1999c), "Structural Adjustment, Development and Employment — Recent Indian Experience", at the *82<sup>nd</sup> Annual Conference of the Indian Economic Association* at the G.N.D. University, Amritsar.
23. ————— (1999d), "Structural Analysis of Punjab Economy — Implications for Policy", in the *Special Session on Punjab Economy during the 82<sup>nd</sup> Annual Conference of the Indian Economic Association* at the G.N.D. University, Amritsar.
24. Sethi, A.S. (1999), "Economic Disparities in Punjab — An Inter-District Analysis", in the *Special Session on Punjab Economy during the 82<sup>nd</sup> Annual Conference of the Indian Economic Association* at the G.N.D. University, Amritsar.
25. Sethi, A.S. and P.S. Raikhy (2000), "Economic Development and Poverty — An International Experience", in the *National Seminar on Poverty and Development Alternatives*, at the P.G. Deptt. of Economics, University of Jammu, Jammu.
26. Sethi, A.S. (2000), "Identification of Lagging Regions in Punjab — Policy for Balanced Growth", in the *National Seminar on Development Alternatives for Underdeveloped Areas of India — Social Science Perspective*, at the H.P. University, Shimla.
27. Sethi, A.S. and P.S. Raikhy (2000), "Changing Sources of Economic Growth in India: Implications For Second Generation Reforms", in the *83<sup>rd</sup> Annual Conference of the Indian Economic Association* at the University of Jammu, Jammu.
28. Sethi, A.S. and Jaswinder Singh (2001), "Inter-Sectoral Linkages in Haryana's Income — A Temporal Analysis" at the *21<sup>st</sup> Annual Conference of the Haryana Economic Association* at Maharaja Agrasen College, Jagadhari.
29. Sethi, A.S. (2001), "Growth and Structural Transformations in Private Final Consumption Expenditure — The Indian Experience", in the *National Seminar on Growth and Structural Changes in Indian Economy since Independence* at Mohanlal Sukhadia University, Udaipur.

30. Sethi, A.S. and Vikas Bhargava (2001), “ Electricity Consumption in Punjab and Haryana: An Examination of Structural Transformations During Liberalisation Regime”, in the 5<sup>th</sup> *Conference of the North-West Indian Sociological Association* at the Guru Nanak Dev University, Amritsar (Nov. 5-7).
31. Sethi, A.S. (2002), “Globalisation and the Emerging Pattern of Consumption — The Indian Experience” in the 84<sup>th</sup> Annual Conference of the Indian Economic Association at the University of Kerala, Thiruvananthapuram (December 27-29).
32. Sethi, A.S. (2003a), “Globalisation and the Changing Productivity Performance in the Indian Economy — A Sectoral Analysis” in the *AICTE sponsored National Seminar on Global Competitiveness and Productivity in Indian Business* at the APEEJAY Institute of Management, Jalandhar (March 21-22).
33. ——— (2003b), “Structural Transformations in Electricity Consumption — A Comparative Analysis For Punjab and Haryana” in the Seminar-cum-Workshop on *Transitional Crisis in Green Revolution Belt and Response of Public Policy* at the Department of Economics, Punjabi University, Patiala (March 30).
34. ——— (2003c), “Emerging Pattern of Capital Formation in the Indian Economy during Globalisation Scenario” in the *MHRD sponsored National Seminar on 'Implications of Intellectual Property Rights - The Indian Scenario'* at the Appejay College of Fine Arts, Jalandhar (November 29).
35. ——— (2004a), “Gravity Flow Irrigation System (*Kuhl*) in Himachal Pradesh — A Case of Palampur Region” in the *Indian Institute of Social Sciences sponsored Seminar on Panchayati Raj and Agricultural Development* at the Khalsa College, Amritsar (February 24).
36. ——— (2004b), “Capital Formation in India — Emerging Trends”, in the UGC *Sponsored National Seminar on Capital Market Reforms in India*, organised by the Department of Commerce and Business Management, Guru Nanak Dev University, Amritsar (March 1-2).
37. ——— (2004c), “Consumption Expenditure on Education and Health in India — Emerging Pattern”, in the National Seminar on *Opportunities and Challenges to the Indian Business under the W.T.O. Regime*, organised by the Department of Commerce and Business Management, Guru Nanak Dev University, Amritsar (March 9-10).
38. ——— (2004d), “Emerging Pattern of Consumption Expenditure in India during the W.T.O. Regime”, in One-Day Seminar on *Opportunities and Challenges of W.T.O. to the Indian Economy*, organised by Shanti Devi Kanya Maha Vidyalaya, Dinanagar (March 13).
39. ——— (2004e), “Inter-Regional Divergences in Electricity Consumption — A Case of Punjab and Haryana”, in the National Seminar on *Challenges and Priorities in Urban and Regional Planning*, organised by Guru Ram Das School of Planning, Guru Nanak Dev University, Amritsar (March 22-23).
40. ——— (2004f), Attended and Participated in Discussions in One Day Seminar on *Rapid Economic Development of Amritsar Region*, organised by PHD Chamber of Commerce and Industry, Chandigarh at Guru Nanak Dev University, Amritsar (July 5).
41. Sethi, A.S. and Jaspreet Kaur (2004a), “ Structural Transformations in Consumption Expenditure — Emerging Experience for Some Asian Economies” in the 87<sup>th</sup> Annual

Conference of the Indian Economic Association at the Banaras Hindu University, Varanasi (December 21-23).

42. Sethi, A.S. and Jaspreet Kaur (2004b), “Structural Changes in Consumption Expenditure in Some Asian Economies”, Accepted for Presentation in the **International Seminar** on *Ten Years of WTO and an Asian Union*, Organised at Colombo by the International Institute of Development Studies and Aquinas College, Colombo (November 27-28).
43. Sethi, A.S. and Manpreet Kahlon (2005), “Growth Performance of Co-operative Banking in Punjab” in the UGC National Seminar (Under SAP) on *Agricultural and Rural Development (Including Rural Industrialisation) in Punjab*, organised by the Punjab School of Economics, Guru Nanak Dev University, Amritsar (February 4-5).
44. Sethi, A.S. (2005a), “Emerging Trends in Income from Secondary Sector of Punjab”, in the ICSSR sponsored National Seminar on *Industrialisation, Globalisation and Punjab Industry*”, organised by the P.G. Department of Economics, Lyallpur Khalsa College, Jalandhar, Punjab (February 12).
45. ——— (2005b), “Trends in Inter-Regional Divergences in Electricity Consumption During Post-Reforms Period — A Case of Punjab and Haryana”, in the National Seminar on *Emerging Challenges in the Post-Reform Period*, organised by Haryana Institute of Rural Development, Nilokheri (March 12-13).
46. ——— (2005c), “Government Expenditure and Income in India: Structural Changes and Causality Behaviour”, in the National Seminar on *Policy Reforms in India: Some Economic, Social and Political Issues*, organised by the Department of Economics, Punjabi University, Patiala (March 22-23).
47. ——— (2005d), “Intellectual Property Rights — Implications for Pharmaceutical Sector in India”, in the MHRD Sponsored National Seminar on *Intellectual Property Rights*, organised by the Punjab School of Economics, Guru Nanak Dev University, Amritsar (March 25-26).
48. ——— (2006a), “Estimation of Rates of Growth — Some Conceptual Issues”, in the 42<sup>nd</sup> Annual Conference of the Indian Econometric Society (TIES) at G.N.D. Univ. , Amritsar (Jan 05-07).
49. ——— (2006b), “Urban Poverty in India — Some Issues”, in UGC National Seminar (Under Special Assistance Programme) on *Urban Poverty: A Challenge for Sustainable Development*, organised by the Department of Sociology, G.N.D. Univ. , Amritsar (Feb 16-17).
50. ——— (2006c), “Growth Performance of Industrial Sector in Punjab”, UGC National Seminar (Under Special Assistance Programme on *Small Scale Industry in Punjab Under New Policy Regime: Performance and Strategies*, organised by the Punjab School of Economics, G.N.D. Univ. , Amritsar (Feb 18-19).
51. ——— (2006d), “Leads and Lags in Sectoral Income — A Case of the Punjab State”, in UGC Sponsored National Seminar on *Economic Reforms under WTO Regime: Some Implications*, organised by the Department of Commerce and Business Management, G.N.D. Univ. , Amritsar (Feb 24-25).
52. ——— (2006e), “Emergence of Tertiary Sector in Punjab”, in the Second PCMA International Conference on *Services Sector — The Next Wave*, organized by DAV College, Jalandhar (Feb 25-27).

53. ——— (2006f), “Some Aspects of Rural Poverty in India”, in the National Seminar on *Rural Development: Retrospect and Prospect*, organized by Haryana Institute of Rural Development (HIRD), Nilokheri (Mar 21-22).
54. ——— (2006g), “Growth and Structural Changes in Income of the Punjab State”, in the UGC National Seminar (Under Special Assistance Programme) on *Punjab Economy: Challenges and Opportunities*, organised by the Punjabi University, Patiala (Mar 23).
55. ——— (2006h), “Co-Operative Sector Banking in Punjab”, in the *NABARD & Planning Commission of India Sponsored National Seminar on Rural Finance in India*, organized by St. Soldier Management & Technical Institute, Jalandhar (Mar 30-31).
56. ——— (2006i), “Changing Determinants of Rural Poverty in India” in the National Seminar on *One and a Half Decades of India’s Economic Reforms: Introspection and Future Agenda* (Organised by the Department of Economics), organized by Aligarh Muslim University, Aligarh (Nov 11-12).
57. ——— (2006j), Attended the 89<sup>th</sup> Annual Conference of the Indian Economic Association, held at Kurukshetra University, Kurukshetra, and participated in deliberations/ discussions in different Technical Sessions (Dec 27-29).
58. Sethi, A.S. and Rimpay (2007), “Tax-GDP Interrelationships: The Indian Experience”, in the 43<sup>rd</sup> Annual Conference of the Indian Econometric Society at the IIT, Mumbai (Jan 05-07).
59. Sethi, A.S. (2007a), “Growth Analysis of Vehicular Traffic in Punjab” in the UGC National Seminar (Under SAP) on *Quality of Life in Urbanising World*, organised by the Department of Sociology, G.N.D. University, Amritsar (March 07-08)
60. ——— (2007b), “Causal Linkages between Tax and GDP in India” in the National Seminar on *Making Growth Inclusive with Special Reference to Imbalance in Regional Development*, organised by IIAS, Shimla and Dept. of Economics, University of Jammu, Jammu (March 12-13)
61. Sethi, A.S. and Aman Gill (2007a), “Rural Development in Punjab: Implications for Employment” in the UGC National Seminar (Under SAP) on *Rural Employment in Punjab: Challenges & Strategies*, organised by the Punjab School of Economics, G.N.D. University, Amritsar (March 17-18).
62. ——— (2007b), “Co-Operative Credit and Rural Development in Punjab: Implications for Employment” in the 90<sup>th</sup> Annual Conference of the Indian Economic Association, organised by the Department of Economics University of Kashmir, Srinagar (Oct 25-27).
63. Sethi, A.S. and Gurbinder Kaur (2007), “National Income in India — Long-term Growth Behaviour” in the 11<sup>th</sup> Annual Conference of Indian Political Economy Association (IPEA) on *Re-Examining Development Debates: Concepts, Strategies, and Processes*, organised by the Department of Commerce and Business Management, G.N.D. University, Amritsar (Nov 02-03).
64. ——— (2008), “Growth Performance and Structural Changes in Income of India”, in 44<sup>th</sup> Annual Conference of *The Indian Econometric Society* (TIES), Dept of Econ, School of Social Sciences, Univ of Hyderabad (Jan 03-05)

65. Sethi, A.S. and Baljit Kaur (2008a), "Liberalisation and Social Sector Expenditure in India: An Inter-state Analysis", in the 26<sup>th</sup> Annual Conference of *The Indian Association for Research in National Income and Wealth (IARNIW)*, held by the Directorate of Econ & Stats, Government of Uttranchal at Dehradun (Jan 11-12).
66. ————— (2008b), "Social Sector Expenditure in India: An Examination of Growth Pattern and Inter-State Disparities during Globalisation Policy Regime", in the UGC National Seminar (Under Special Assistance Programme) on *Globalisation, Inequality and Sustainability*, Organised by the Department of Sociology, G.N.D. Univ., Amritsar (March 06-07).
67. Sethi, A.S. (2008), "Small-scale Agro-based Industry in Punjab: An Examination of Growth Performance and Structural Changes", in the UGC National Seminar (Under Special Assistance Programme) on *Rural Industrialisation in Punjab: Challenges and Strategies*, Organised by the Punjab School of Economics, G.N.D. Univ., Amritsar (March 04-05).
68. ————— (2008b), Participated in deliberations/ discussions in different Technical Sessions of the IEA Sponsored National Seminar on *Development, Displacement and Rehabilitation: Challenges and Opportunities*, held at the Rourkela Instt. of Mgt. Studies, Rourkela (Sept 20-21).
69. ————— (2008c), Attended the Workshop and participated in the discussions at the Workshop on World Bank Knowledge Resources at the G.N.D. Univ., Amritsar (Oct. 20).
70. Sethi, A.S. and Sunaina (2008), "Capital Formation in Punjab and Haryana – A Comparative Analysis", in the 27<sup>th</sup> Annual Conference of *Indian Association for Research in National Income and Wealth* held at the Institute for Social and Economic Change, Bangalore (Nov 27-29).
71. Sethi, A.S. and Baljit Kaur (2008a), "Social Sector Expenditure in India: An Examination of Inter-state Divergences", in the 91<sup>st</sup> Annual Conference of the *Indian Economic Association*, held at M.L. Sukhadia University, Udaipur (Dec 27-29, 2008).
72. ————— (2009), "Social Sector Expenditure in Punjab: A Comparative Analysis", in the UGC National Seminar (Under Special Assistance Programme) on *Social and Physical Infrastructure in Punjab: Status and Implications for Development*, Organised by the Punjab School of Economics, G.N.D. University, Amritsar (Feb 14-15).
73. Pandhi, Ritu and A.S. Sethi, A.S (2009), "Status of Health in Punjab: A Comparison with Adjoining States", in the UGC National Seminar (Under Special Assistance Programme) on *Social and Physical Infrastructure in Punjab: Status and Implications for Development*, Organised by the Punjab School of Economics, G.N.D. University, Amritsar (Feb 14-15).
74. Sethi, A.S. (2009) "Relative Performance of Punjab State Towards Social Sector Expenditure", in the UGC Sponsored National Seminar on *New Economic Order & Human Development*, Organised by the Economics Department, K.R.M. D.A.V. College, Nakodar (February 21-22).
75. ————— (2009), "*Punjab ate Haryana Rajaan Wich Poonji Nirmaan*", in the Regional Seminar on *Punjab Di Arthikta: Kaargujari ate Chunatiann*, Organised by the Department of Economics, Punjabi University, Patiala (March 17-18, 2009).
76. ————— (2009), Attended the 69<sup>th</sup> Annual Conference of the Indian Society of Agricultural Economics, held at Guru Nanak Dev University, Amritsar, and participated in deliberations/ discussions in different Technical Sessions (Dec 17-19).

77. Sethi, A.S. and Gurwinder Kaur (2010), “ Some Dynamic Aspects of Net Domestic Product in India – A Sectoral Analysis” presented in the Annual Conference of the IARNIW at Thiruvanthapuram (January 08-10, 2010).
78. Sethi, A.S. and Amardeep Kaur (2010), “Inter-Sectoral Linkages in India: An Evidence from Time Series Analysis of Quarterly GDP”, presented in the 46<sup>th</sup> Annual Conference of *The Indian Econometric Society* at University of Jammu, Jammu (March 04-06).
79. Sethi, A.S. and Baljit Kaur (2010), “Expenditure on Education and Allied Activities in Punjab: A Comparative Analysis with Some Adjoining States”, presented in the ICSSR Sponsored National Seminar on *Education Scenario in Punjab: Challenges and Prospects*, Organised by the School of Social Sciences, Guru Nanak Dev University, Amritsar (March 04-05).
80. Sethi, A.S. and Damanjeet Kaur (2010), “Changing Structure of Employment in India: Evidence from Different Rounds of NSS”, presented in the UGC National Seminar on *Employment Generation: Issues and Policies*, Organised by the Punjab School of Economics, Guru Nanak Dev University, Amritsar (March 19-20).
81. Sethi, A.S. (2010), Attended National Seminar on *Management of Natural Resources and Environment in India*, Organised by GAD Institute of Development Studies, Amritsar (October 23-24, 2010) and contributed a paper.
82. ——— (2010), Attended National Seminar on *Development, Disparities and Patterns of Social Exclusion*, Organised by the Centre for the Study of Social Exclusion and Inclusive Policy, Dept.of Sociology, G.N.D.University, Amritsar (November, 08-09, 2010) and participated in the discussions.
83. ——— (2010), Attended National Seminar on *Role of Statistics in Physiotherapy*, at Lyallpur Khalsa College, Jalandhar (November 25-27, 2010) and participated in the discussions.
84. Sethi, A.S. and Jyoti Anand (2010), “Growth Behaviour, Structural Changes and Instability in India’s Exports and Imports”, presented in the *Second Research Conference on Empirical Issues in International Trade and Finance*, organized by the Indian Institute of Foreign Trade (IIFT), New Delhi (December 16-17, 2010).
85. Sethi, A.S. and Navpreet Kaur (2010), “Environmental Degradation – A Case Study of Ambient Air Quality in Some Industrial Pockets of Punjab”, in the 93<sup>rd</sup> *Annual Conference of the Indian Economic Association*, held at Panjab University, Chandigarh (Dec 27-29, 2010).
86. Sethi, A.S. (2011a), “Global Financial Crisis and its Impact on India’s GDP Growth”, presented in UGC Sponsored National Seminar on *Financial Meltdown and its Impact on Indian Economy*, at SDAM College, Dinanagar (February 12).
87. ——— (2011b), “Emerging Pattern of India’s GDP Growth: Need for Employment Generation Policy”, presented at the National Seminar on *Challenges to Inclusive Growth in an Emerging Economy like India*, at the NDIM, New Delhi (February 25).
88. Sethi, A.S. and Jyoti Anand (2011), “On Some Dynamic Aspects of India’s Exports and Imports”, presented at the *International Conference on Changing Structure of International Trade and Investment: Implications for Growth and Development*, organized by Jamia Millia Islamia, New Delhi (March 2-3, 2011).
89. Sethi, A.S. and Ritu Pandhi (2011), “Differential Inequalities in Calorie Intake among Indian States: Evidence From Different Rounds of NSS”, presented at the *Annual Conference of*

*the Indian Association for Research in National Income and Wealth* at the Centre for Economic and Social Studies, Hyderabad (March 11-13).

90. Singh, H., N. Singh and A.S. Sethi (2011), “An Assessment of MNREGS in Punjab – A Case Study of Amritsar and Gurdaspur Districts”, presented at the UGC National Seminar (Under SAP) on *Infrastructure and Employment Generation in Punjab: Perspectives and Challenges* at the Punjab School of Economics, GND University, Amritsar (March 24).
91. Sethi, A.S. and Supreet Kaur (2011), “Physical Capital Formation in Punjab: A Comparative Analysis with Haryana”, presented at the UGC National Seminar (Under SAP) on *Infrastructure and Employment Generation in Punjab: Perspectives and Challenges* at the Punjab School of Economics, GND University, Amritsar (March 24).
92. Sethi, A.S. and Ritu Pandhi (2011), “Changing Inequalities in Calorie Intake and Unemployment among Indian States with Special Reference to Punjab”, presented at the UGC National Seminar (Under SAP) on *Infrastructure and Employment Generation in Punjab: Perspectives and Challenges* at the Punjab School of Economics, GND University, Amritsar (March 24).

#### **(e) Lectures Delivered**

**: THIRTY SEVEN**

1. Acted as a Resource Person and delivered a lecture on “Some Methods of Estimating Rates of Growth in Time Series Economic Aggregates” in the Refresher Course on *Macro-Management in the Developing Economies*” at the Academic Staff College (in Collaboration with The Punjab School of Economics), Guru Nanak Dev University, Amritsar (May 09, 1998).
2. Acted as a Resource Person and delivered an Extension Lecture on “Probability and Distributions” to the P.G. Students in Economics of D.A.V. College, Amritsar (Jan. 22, 2000).
3. Acted as a Resource Person and delivered a lecture on “Growth Accounting in India: Implications for Policy” to the Participants of the Refresher Course in Economics organised by the Academic Staff College (in collaboration with the Punjab School of Economics), Guru Nanak Dev University, Amritsar (Aug. 09, 2000).
4. Acted as a Resource Person and delivered a lecture on “Savings in India – Structural Change, Forecasting and Causality Behaviour” to the Participants of the Refresher Course in Economics organised by the Academic Staff College (in collaboration with the Punjab School of Economics), Guru Nanak Dev University, Amritsar (Aug. 22, 2000).
5. Acted as a Resource Person and delivered a Lecture on “Curve Fitting” to the trainees of *the Training Programme on Design and Analysis of Field Experiments* organised by the Department of Mathematics and Statistics, Ch. Charan Singh Haryana Agricultural University, Hisar (Nov. 3, 2000).
6. Acted as a Resource Person and delivered a lecture on “Testing of Statistical Hypotheses for Social Scientists” to the participants of the *Advanced Training Programme in Research Methodology in Social Sciences*, organised by the Department of Economics and Sociology, P.A.U., Ludhiana. (July 26, 2001, M).
7. Acted as a Resource Person and delivered a lecture on “Analysis of Variance (ANOVA) Technique” to the participants of the *Advanced Training Programme in Research Methodology in Social Sciences*, organised by the Department of Economics and Sociology, P.A.U., Ludhiana (July 26, 2001, E).

8. Acted as a Resource Person and delivered an Extension Lecture on “The Role of Quantitative Techniques in Economics” to the students in a Seminar organised by the D.A.V. College, Hoshiarpur (Oct 13, 2001).
9. Acted as a *Resource Person* and delivered a lecture on “Measuring Inter-Regional Disparities” to the Participants of Refresher Course in Economics at the Academic Staff College, G.N.D. University, Amritsar (August 22, 2002).
10. Acted as a *Resource Person* and delivered a lecture on “Emerging Pattern of Consumption Expenditure The Indian Experience during Reforms Period” to the Participants of Refresher Course in Economics at the Academic Staff College, G.N.D. University, Amritsar (October 08, 2003).
11. Acted as a *Resource Person* and delivered a lecture on “Changing Determinants of Poverty: Implications for Economic Reforms in India” to the Participants of Refresher Course in Economics at the Academic Staff College, G.N.D. University, Amritsar (October 18, 2003).
12. Acted as a *Resource Person* and delivered an *Extension Lecture* on “Non-Linear Growth Curves” to the P.G. Students in Economics at the DAV College, Amritsar (November 27, 2003).
13. Acted as a *Resource Person* and delivered an *Extension Lecture* on “Testing of Hypotheses” to the P.G. Students (of MBA/M.Sc. Bio-Informatic Courses) at St. Soldier Management & Technical Institute (Affiliated to the P.T.U., Jalandhar), Jalandhar, on 29.11.2004.
14. Acted as a *Resource Person* and delivered an *Extension Lecture* on “Some Aspects of Time Series Analysis” to the P.G. Students of Economics at D.A.V. College, Amritsar, on 29.01.2005.
15. Acted as a Resource Person and delivered a lecture on *Some Aspects of Survey Sampling* to the participants of G.O.C at Academic Staff College, G.N.D. University, Amritsar (June, 2006).
16. Acted as a *Resource Person* and delivered a lecture on “The Estimation of Rates of Growth — Some Conceptual Issues” to the Participants of Refresher Course in Economics at the Academic Staff College, G.N.D. University, Amritsar (June 14, 2007).
17. Acted as a *Resource Person* and delivered a lecture on “Tax-GDP Interrelationships in India” to the Participants of Refresher Course in Economics at the Academic Staff College, G.N.D. University, Amritsar (June 23, 2007).
18. Acted as a *Resource Person* and delivered a lecture on “Growth Pattern of National Income: The Indian Experience” to the Participants of Refresher Course in Business & Commerce at the Academic Staff College, G.N.D. University, Amritsar (December 27, 2007).
19. Acted as a *Resource Person* and delivered an Extension Lecture on “Sampling Techniques” to the teachers/ students of Economics/ Commerce at Sukhchaina Sahib College, Phagwara (February 15, 2008).
20. Acted as a *Resource Person* and delivered a lecture on “Some Methodological Aspects of Rates of Growth Computations: Limitations and Alternatives” to the Participants of Refresher Course in Economics at G.N.D. University, Amritsar (June, 2008).
21. Acted as a *Resource Person* and delivered a lecture on “Liberalisation and Social Sector Expenditure: An Inter-State Analysis in India” to the Participants of Refresher Course in Economics at G.N.D. University, Amritsar (June, 2008)

22. Acted as a *Resource Person* and delivered a lecture on “Testing of Hypotheses” to the Participants of Refresher Course in Research Methodology at the U.G.C. Academic Staff College, H.P. University, Shimla (September 26, 2008; M).
23. Acted as a *Resource Person* and delivered a lecture on “Some Parametric and Non-Parametric Tests of Significance” to the Participants of Refresher Course in Research Methodology at the U.G.C. Academic Staff College, H.P. University, Shimla (September 26, 2008; E).
24. Acted as a *Resource Person* and delivered an Extension Lecture on “Hypothesis Testing” to the U.G./ P.G. students at H.M.V., Jalandhar (February 18, 2009).
25. Acted as a *Resource Person* and delivered a lecture on “Some Aspects of Survey Sampling” to the Participants of Refresher Course on Research Methodology at G.N.D. University, Amritsar (July 24, 2009).
26. Acted as a *Resource Person* and delivered a lecture on “Testing of Hypotheses” to the Participants of Refresher Course on Research Methodology at G.N.D. University, Amritsar (July 24, 2009).
27. Acted as a *Resource Person* and delivered a lecture on “Some Applications of Testing of Hypotheses” to the Participants of Refresher Course on Research Methodology at G.N.D. University, Amritsar (July 29, 2009).
28. Acted as a Resource Person in the Program: “Census-2011, *Kujh Mahatav Pooran Pehlu*”, Live Telecast by DD1 Punjabi, May 17, 2010 (8.00-8.30 p.m.).
29. Acted as a *Resource Person* and delivered a lecture on “Some Aspects of Sampling Techniques” to the Participants of Refresher Course on Research Methodology at G.N.D. University, Amritsar (June 10, 2010).
30. Acted as a *Resource Person* and delivered a lecture on “Testing of Significance of Statistical Hypotheses” to the Participants of Refresher Course on Research Methodology at G.N.D. University, Amritsar (June 26, 2010).
31. Acted as a *Resource Person* and presented the Key Paper on, “Urbanization in India with Special Reference to Punjab: Need for Sustainable Development (Jointly with Suchi Mehra), at the UGC National Seminar on *Development Perspectives - Focus on Sustainable and Inclusive Growth*, held at HMV, Jalandhar (October 23, 2010).
32. Acted as a *Resource Person* and delivered a lecture on “Global Financial Crisis and its Impact on India’s GDP Growth” to the Participants of Refresher Course in Economics at Guru Nanak Dev University, Amritsar (March 09, 2011).
33. Acted as a *Resource Person* and delivered a lecture on “Some Dynamic Aspects of India’s Exports and Imports” to the Participants of Refresher Course in Economics at Guru Nanak Dev University, Amritsar (March 18, 2011).
34. Acted as a *Resource Person* and delivered an Extension Lecture on “Some Statistical Techniques for Data Analysis – An Overview” to the P.G. students at ASSM College, Mukandpur (March 25, 2011).
35. Acted as a *Resource Person* and conducted **three** sessions in Workshop on “Research Methodology (Interdisciplinary)” to the University and College Teachers at ASSM College, Mukandpur (May 26, 2011).

**(f) Technical Sessions Chaired/ Co-Chaired**

**: NINETEEN**

1. Acted as Rapporteur for the Special Session on Punjab Economy during 82<sup>nd</sup> Annual Conference of the Indian Economic Association at G.N.D. University, Amritsar (Dec. 27-29, 1999).
2. Co-Chaired the 1<sup>st</sup> Technical Session in the MHRD sponsored National Seminar on 'Implications of Intellectual Property Rights - The Indian Scenario' at the Appejay College of Fine Arts, Jalandhar (November 29, 2003).
3. Chaired the 1<sup>st</sup> Technical Session in the ICSSR sponsored National Seminar on 'Industrialisation, Globalisation and Punjab Industry', organised by the P.G. Department of Economics, Lyallpur Khalsa College, Jalandhar, Punjab (February 12, 2005).
4. Chaired the Technical Session on *Productivity and Efficiency* in the 42<sup>nd</sup> Annual Conference of the Indian Econometric Society at Guru Nanak Dev University, Amritsar (January 5-7, 2006).
5. Co-Chaired the Technical Session on BPO/KPO & Information Technology in the 2<sup>nd</sup> PCMA International Conference on *Services Sector — The Next Wave* at D.A.V. College, Jalandhar (February 25-27, 2006).
6. Co-Chaired the 3<sup>rd</sup> Technical Session on *Panchayati Raj Institutions* in the National Seminar on *Rural Development: Retrospect and Prospect*, organised by Haryana Institute of Rural Development, Nilokheri (March 21-22, 2006).
7. Chaired the Valedictory Session in the National Seminar on *Quality of Life in Urbanising World* (Under UGC Special Assistance Programme) organized by Department of Sociology, GND University, Amritsar (March 07-08, 2007).
8. Chaired the 6<sup>th</sup> Technical Session on *Inter and Intra-Regional Issues* in the National Seminar on *Making Growth Inclusive with Special Reference to Imbalance in Regional Development* organized jointly by the Institute of Advanced Studies, Shimla and Department of Economics, University of Jammu, Jammu (March 12-13, 2007).
9. Chaired Technical Session-III in the *Workshop on Researching Standards and Techniques for Study of Social development at Regional Level*, Organised by the Centre for South-West Asia Study (Pakistan-Afghanistan), Economics Department, Punjabi University, Patiala, in collaboration with Indian Association of Social Science Institutions (Jan 27-28, 2009).
10. Chaired Technical Session-II in the UGC Sponsored National Seminar on *New Economic Order & Human Development*, Organised by the Economics Department, K.R.M. D.A.V. College, Nakodar (Feb 21, 2009).
11. Co-Chaired the 1<sup>st</sup> Technical Session in the Regional Seminar on *Punjab Di Arthikta: Kaargujari ate Chunatiann*, Organised by the Department of Economics, Punjabi University, Patiala (March 17-18, 2009).
12. Appointed by the Executive Body of the Indian Economic Association to act as Rapporteur to the Key Note Papers in the First Technical Session during 92<sup>nd</sup> Annual Conference of the Association at Bhubneshwar (December, 27-29, 2009).
13. Chaired Technical Session-I on Development Economics in the 46<sup>th</sup> Annual Conference of *The Indian Econometric Society*, held at the University of Jammu, Jammu (Jan 4, 2010).
14. Chaired Technical Session-V on International Economics in the 46<sup>th</sup> Annual Conference of *The Indian Econometric Society*, held at the University of Jammu, Jammu (Jan 5, 2010).

15. Chaired the 2<sup>nd</sup> Technical Session in the UGC National Seminar on *Development Perspectives - Focus on Sustainable and Inclusive Growth*, held at HMV, Jalandhar (October 23, 2010).

16. Chaired Technical Session-III in the National Seminar on *Role of Statistics in Physiotherapy*, at Lyallpur Khalsa College, Jalandhar (November 25-27, 2010).

17. Acted as *Discussant* in Technical Session-4 (on Competitiveness) at the Second Research Conference on *Empirical Issues in International Trade and Finance* held at Indian Institute of Foreign Trade, New Delhi (December 16-17, 2010).

18. Chaired Technical Session-I in the UGC Sponsored National Seminar on *Financial Meltdown and its Impact on Indian Economy*, held at Shanti Devi Arya Mahila College, Dinanagar (February 12, 2011).

19. Chaired Technical Session-9 in the *International Conference on Changing Structure of International Trade and Investment: Implications for Growth and Development*, organized by Jamia Millia Islamia, New Delhi (March 2-3, 2011).

**(g) Research Guidance:**

**(i) Major Advisor to Ph.D. Students (at G.N.D.U., Amritsar)**

**Completed:**

1. Public Expenditure and Income in India: An Inter-state Analysis (Ms Baljit Kaur): Date of Viva Voce Examination: 23.02.2010

**Under Progress**

**:Six**

**(ii) Major Advisor to M.Phil. Students (at G.N.D.U., Amritsar)**

**: Two**

1. Growth, Structure and Instability in Indian Agriculture (Mr Gagandeep Taneja): 2009.
2. Trade and Economic Growth in India: An Empirical Investigation (Ms Jyoti Anand): 2010.

**(iii) Minor Advisor to M.Sc. & Ph.D. Students (at H.P.Agr. Univ., Palampur): Thirty**

**(iv) M.Sc. Dissertations supervised (at the G.N.D.U., Amritsar):**

**Thirty Two**

1. Inter-State Disparities in NSDP in India (Ms Pawandeep Malhotra): 1990.
2. Market Structure, Conduct and Performance of Printing Industry — A Case Study of Amritsar District (Ms Manpreet Kaur): 1992.
3. Working and Performance of Small Scale Iron Industry — A Case Study of Batala Town (Ms Harinder Kaur): 1993.
4. Growth and Structural Changes in Education in Punjab (Ms Meenakshi): 1994.
5. Economic Development in Punjab and Haryana — A Comparative Analysis (Ms Geeta): 1995.

6. Disparities in the Economic Development in Punjab — A Classificatory Analysis (Mr. Varinder Kumar): 1996.
7. Savings in India — Structure, Growth and Forecasting (Ms Arvinder K. Sethi): 1997.
8. Dynamics of Factor Incomes and Growth Accounting in India (Ms Manpreet Kaur): 1998
9. Income and Savings in India — Growth and Causal Behaviour (Ms Alka): 1998.
10. Inter-District Disparities in Productivity Performance of Food and Paper/Printing Products Industry in Punjab (Ms Bindu Vashisht): 1999.
11. Growth and Structural Changes in Private Final Consumption Expenditure in India (Ms Tarun Bala): 1999.
12. Growth and Structural Changes in Capital Formation in India (Ms Payal Jairath): 2000.
13. Consumption Expenditure and Income in India — Growth, Forecasting and Causal Behaviour (Ms Gulwinder Kaur): 2000.
14. Determinants of Poverty in India — An Inter-State Analysis (Ms Raman Chahal): 2001.
15. Some Dynamic Aspects of Electricity Consumption in Punjab and Haryana — A Comparative Analysis (Mr. Vikas Bhargava): 2002.
16. Structural Transformations in Private Final Consumption Expenditure — A Global Study (Ms Jaspreet Kaur): 2003.
17. Public Expenditure and National Income in India — Growth, Structural Changes and Causal Behaviour (Ms Baljit Kaur): 2003.
18. Co-Operative Banking in Punjab: An Examination of Structure and Performance (Ms Manpreet Kahlon): 2004.
19. Transport Infrastructure in Punjab — An Inter-District Analysis (Mr Lakhwinder Singh): 2004.
20. Changing Pattern of Electricity Consumption in Major States of India (Ms Navjot Khaira): 2004.
21. Some Aspects of Dairying Activities in Border Areas of Amritsar District (Ms Karamjeet Kaur): 2005.
22. Tax Revenue and National Income in India — An Examination of Growth and Causality Behaviour (Ms Rimpay): 2005.
23. Growth Performance and Structural Changes in Small Scale Industries in Punjab (Ms Samita Sharma): 2006.
24. Inter-Regional Disparities in Rural Development in Punjab (Ms Amanpreet Kaur Gill): 2006.
25. Problems of Labourers in Sports Goods Industry, Jalandhar (Ms Navneet Bhatia): 2007.
26. Credits, Deposits and Credit-Deposit Ratios — An Inter-State Analysis (Ms Manmeen Kaur): 2007.
27. Inter-Sectoral Linkages in India (Ms Gurvinder Kaur): 2007.

28. Capital Formation in Punjab and Haryana – A Comparative Analysis (Ms Sunaina): 2007.
29. Quarterly G.D.P. in India – An Econometric Analysis (Ms Amardeep Kaur): 2008.
30. Occupational Distribution of Working Force in India: Evidence from Different Rounds of NSSO (Ms Damanjeet): 2008
31. Urbanisation in India — An Empirical Analysis (Ms Shuchi Mehra): 2010
32. Price Movements in India — An Inter-state Analysis (Ms Navkiran Kaur): 2010

**M.B.E. Project Reports supervised (at the G.N.D.U., Amritsar): Nine**

1. Foreign Direct Investment in India — An Examination of Growth and Structural Changes (Ms Rupinder Kaur): 2005.
2. Stress Management among the Officers of Public and Private Sector Banks — A Case Study of Amritsar City: 2006.
3. External Debt of India — An Examination of Growth and Structural Change (Ms Jasleen Kaur): 2006.
4. Corporate Governance Reporting Practices of Some Indian Companies (Ms Unnati Madan): 2008.
5. Environmental degradation — A Case Study of Ambient Air Quality in Some Industrial Pockets of Punjab (Ms Navpreet Kaur): 2008.
6. Financial Performance of Oriental Bank of Commerce (Ms Jasdeep Saluja): 2009.
7. Project Financing by Oriental Bank of Commerce — An Evaluation with respect to Amritsar Region (Ms Ramanpreet Kaur): 2009
8. Market Study of Parker Pens in Amritsar City (Ms Banpriya Kaur): 2010
9. An Analysis of Risk and Return of Different Sectors in India (Ms Palvi Devgan): 2010

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