

Name : Gokulananda patel  
Designation : Area Head, Operations & Decision Science  
Professor of Operations & Decision Science  
Institution : Birla Institute of Management Technology  
Email : gn.patel@bimtech.ac.in  
Phone : +91 120 6843000 Ext- 376



### **BIOSKETCH:**

Gokulananda Patel is a Professor in Decision Science and heading the area of Operations, and Decision Sciences having 37 years of teaching and research experience. Before joining BIMTECH, he was professor in the PG Department of Business Administration, Sambalpur University. He started his career as a Lecturer of Mathematics in the PG Department of School of Mathematical Sciences, Samabalpur University. He is a PhD in Operations Research, M.Phil. and M.Sc. in Applied Mathematics. He is also an alumnus from IIM, Ahmedabad. His interest lies in Mathematical Programming, Performance Measurement, MCDM. He has more than 100 papers published in both International and National journals of repute and has successfully guided eighteen scholars for their Ph.D so far in Management, Mathematics, Statistics, Insurance Management and Economics.

He continuously improves the courses he teaches in content as well as in pedagogy and enjoys integrating his research into his teaching.

### **EDUCATION: (TOP 3/4)**

FDPM, Indian Institute of Management, Ahmedabad, 1995-1996  
Doctor of Philosophy (Operations Research, Samablpur University, 1988  
Master of Philosophy in Applied Mathematics, IIT, Dhanbad, 1980  
Master in Applied Mathematics, NIT, Rourkela, 1978

### **AREA OF INTEREST AND RESEARCH**

Data Envelopment Analysis  
Multi-Criteria Decision Making  
Mathematical programming

### **TEACHING COURSES AND NEW COURSES DEVELOPED**

Performance Analytics (New Course)  
Marketing Analytics (New Course)  
Retail Analytics (New Course)

Insurance Analytics (New Course)  
Multi-Criteria Decision Making (New Course)  
Management Science  
Statistics for Management

## **EXPERIENCE**

- Professor, Decision Sciences, Birla Institute of Management Technology, Greater Noida, India, June 2006 – onwards.
- Professor, Management, Department of Business Administration, Sambalpur University, India, April 2003-June 2006.
- Associate Professor, Management, Department of Business Administration, Sambalpur University, India, November 1992- April 2003.
- Assistant Professor, Mathematics, School of Mathematical Sciences, Sambalpur University, India, June 1988-November 1992.

## **ACADEMIC POSITIONS AND ASSIGNMENTS**

- Area Head, Operations and Decision Sciences, Birla Institute of Management Technology, June 2015 – Present.
- Computer Centre in-Charge, Birla Institute of Management Technology, June 2006-May 2011
- Visiting Professor, Institute of Accountancy, Arusha, Tanzania, 2011- 2013 onwards.
- Visiting Professor, Institute of Finance Management, Dar Es Salam 2014 - onwards
- Head, Department of Business Administration, Sambalpur University, India, 1992-1994, 1996-1998
- Computer Centre in-charge, Sambalpur University, 1992-2006

## **RECOGNITIONS AND AWARDS**

- University Gold Medal, First Class first in M.Sc.(Applied Mathematics), Samalpur University, 1978
- Best Conference Paper Award for 'ORSI', 1985.

## **RESEARCH PAPERS (selected)**

- Pallavi Pandey, "Retailing Front-line service employees: Introducing Analytic Hierarchy Process in retail Industry". International Journal of Management Practice, In Press, DOI: 10.1504/IJMP.2020.1002811
- Sourabh Bishnoi and Girish Jain, "Deriving Weights of Investment Alternatives using DEAHP", Int. Journal of Operations Research, In press

- ̳, Monika Arora, (2019) “Assessment of Sustainability Scores of DMUs- A DEA Approach”, Journal of Asia Entrepreneurship and Sustainability, Vol XV, Issue 3, pp 84-150. ISSN 1177-4541
- ̳, Pradhan and Olfati, (2019)“Integrations and applications of Analytic Hierarchy Process with Data Envelopment Analysis-A Literature Review”. Vol. 11 Issue 2 2019 ISSN 1936-6744 <https://doi.org/10.13033/ijahp.v11i2.632>
- ̳, Nidhi Thakur,(2017) “Analyzing the Pattern of Learning Organization Dimensions in Public and Private Banks in India”, Int. J. Business Performance Management, Vol. 18, No. 2, 2017
- ̳, Kasio and Mjema, (2016) “Linear Programming Models for Estimating Weights of Analytic Hierarchy Process and for optimization of Human Resource Allocation,” International Journal of Analytic Hierarchy Process, Vol. 8, Issue 2, 2016, DOI: 10.13033/ijahp.vi82.335
- ̳, Sumant Das, (2016) “Cost Efficiency of Pharmaceutical firms manufacturing drugs for specific diseases prevalent in India”. Journal of Medical Marketing. DOI: 10.1177/174579041453
- ̳, Kasidi, R Singh and D K Malhotra, (2016) “Sectoral Optimization of foreign Direct Investment Inflows – Does it Support Economic Development,” Int J of Business Intelligence and System Engineering, DOI: [10.1504/IJBISE.2016.081600](https://doi.org/10.1504/IJBISE.2016.081600)
- ̳, Pratigya Kwatra, “Evaluation of Corporate Social Performance of Indian Public Sector: A Non-Parametric Approach”, International Journal of Indian Culture and Business Management, <https://doi.org/10.1504/IJICBM.2014.064694>
- ̳, Pallavi Seth “Evaluating Efficiency of RSBY using Systems Approach, International Journal of Health Care technology & Manangement, Vol 14, Issue 4, DOI: <https://doi.org/10.1504/IJHTM.2014.067137>
- ̳, Veenu Sharma, and Singh, R.” Measuring the effect of brand equity on the consumers' purchase intention”. *International Journal of Services Technology and Management*, 21(1-3), 2015,98-110.  
- <https://doi.org/10.1504/IJSTM.2015.071106>
- ̳, A.Bose, (2015) “NeuralDEA-A framework using Neural Network to re-evaluate DEA Benchmarks”, Opsearch, Jan-March 2015, Vol 52(1) 18-41 Opsearch. DOI-10.1007/s12597-013-0170-1. 2015
- ̳, A Bose, (2014) “Seeking Alternative DEA Benchmarks”, Opsearch, Jan-March 2014, Vol 51(1) pp 23-35 (DOI) 10.1007/s12597-013-0130-9
- ̳, Zawadi Ali, (2014) “Evaluating Efficiency of Commercial Banks in Tanzaniaand Identifying Efficiency Drivers” IOSR Journal of Business and Management (IOSR-JBM) e-ISSN: 2278-487X, p-ISSN-2319-7668, Vol 16, Issue 7. July 2014
- ̳, Pallavi Seth, (2014)“Measuring Efficiency of Rashtriya Swasthya Bima Yojana using Data Envelopment Analysis”, Journal of Health Management, June 2014, Vol.16(2) 119-216 DOI 10.1177/0972063414526185 Sage publication
- ̳, Pallavi Seth, (2014)“Measuring the Performance of Rashtriya Swasthya Bima Yojana in Districts of Uttar Pradesh using DEA”, The Journal of Insurance Institute of India, April-June 2014, 144-151
- ̳, Pratigya Kwatra (2013) “Corporate Social Performance in Strategic Governance and Stake holder Dimensions: Evidence of Indian Multinational Manufacturing Companies”, Asia Pacific Journal of Management Research and Innovation, Vol. 9, 239-248, September 2013. Doi: 10.1177/2319510X1351921 (Sage Publications)

- , Smriti Pande, (2013)“Efficiency and Projections of Categorical DMUs: a frontier analysis approach”, *Competitiveness Review-An International Business Journal*, Vol. 23 No. 4/5, 2013 pp 408-425, DOI 10.1108/CR-04-2013-0041.
- , Smriti Pande, (2013)“Assessing Cost Efficiency of Pharmacy Retail Stores and Identification of Efficiency Drivers”, *Int. J. of Business Performance Management*, Vol.14, No.4,2013 pp 368-385.I
- , Smriti Pande, (2013) “Measuring the performance of pharmacy stores using discretionary and non-discretionary variables”, Vol. 50, No. 1, Jan-Mar 2013, pp 25-41, (DOI) 10.1007/s12597-012-0095-0, OPSEARCH
- , Pratigya Kwatra and Rahul Singh, (2013) “Corporate Social Performance in Strategic Governance and Stake holder Dimensions: Evidence of Indian Mutinational Manufacturing Companies”, *Asia Pacific Journal of Management Research and Innovation*, Vol. 9, 239-248, September 2013. DOI: 10.1177/2319510X1351921
- , Zawadi Ali, (2013)“ Measuring Bank Efficiency: Evidence from the Tanzanian Bank Efficiency”, *International Journal of Management and Information Technology*, Vol 8, No.1, 2013 pp 1239-1251.
- , Nuzhat Khan,(2013) “Technology Adoption in Management Classroom Learning”, *International Journal of Management and Information Technology*, Vol 7, No. 3, 2013 pp 1111-1124.
  
- , Sumanta Das,(2013) “Assessment of Performance of Pharmaceutical Firms making Drugs for Specific Diseases Prevalent in India: A Data Envelopment Analysis Approach”, *International Journal of Management and Information Technology*, Vol 6, No. 2, 2013 pp 763-775. ISSN: 2278-5612
- , Akanksha Gupta and Sanjiv Mittal, (2013) “Usage of DEA Technique for Measuring Productivity of Grocery Retail Outlets”, *Delhi Business Review*, Vol. 14, No. 1 (January – June 2013) pp 91- 114
- , Smriti Pande, (2013) “Efficiency and Projections of Categorical DMUs: a frontier analysis approach”, *Competitiveness Review-An International Business Journal*, Vol. 23 No. 4/5, 2013 pp 408-425 Emerald Group of Publishing Limited 1059.5422. DOI 10.1108/CR-04-2013-0041.
- , Smriti Pande, (2013) “Assessing Cost Efficiency of Pharmacy Retail Stores and Identification of Efficiency Drivers”, *Int. J. of Business Performance Management*, Vol.14, No.4,2013 pp 368-385.
- , Smriti Pande, (2013) “Measuring the performance of pharmacy stores using discretionary and non-discretionary variables”, Vol. 50, No. 1, Jan-Mar-2013, pp-25-41 DOI: 10.1007/s12597-012-0095-0, OPSEARCH
- , A Bose, (2012)“A Clustering Approach using Principal Components”, Vol-1, Number-2, Jan-Jun 2012, pp54-61, ISSN: 2250-1347
- , Smriti Pande, (2012) “Assessing the Impact of Non-Discretionary Variables on the Performance of Pharmacy Retail Stores Using DEA Approach”, Vol. 5, No. 2 July 2012, *Business Intelligence*.
- , Smriti Pande, (2011) “Retail Competency Evaluation of a Pharmacy Company”, Vol.1, No.1, July-Dec 2011, pp.17-30, *Srujan, National. Adjudged as best paper., 2011*
- , Santosh Kumar, (2011) “DEA approach for evaluating Input-output Specific Efficiencies in Indian Software Industry”, Vol.12, No.1, 2011, *Business perspective*.

- , Santosh Kumar, (2011) "Slack Based Projections for Improving the efficiency of Indian Domestic Software Companies", Vol.2, Issue 3, March 2011, Asia Pacific Journal of Business Management
- (2011) "Information Technology Implementation Prioritization in Supply Chain: An Integrated Multi Criteria Decision Making Approach", Vol.3, No.4, 2010, pp 83-96, International Journal of Information Systems and Supply Chain Management (IJISSCM)
- (2010) "Supplier Development Strategies: A Data Envelopment Analysis Approach", Volume 3, No.1., 2010, Business Intelligence.
- , D K Mahalik, (2010) "Efficiency Measurement Using DEA and AHP: A Case Study on Indian Ports", Vol. 7, No. 1 & 2, March & June, 2010, Journal of Supply Chain, ICFAI
- , Sree Kumar, (2007) "Comparative Analysis of B-school Ranking and an Alternative Ranking Method", Vol.13, No.1, pp. 47-59, March 2007, International Journal of Operations and Quantitative Management
- , R K Mishra, (2007) "Benchmarking Retail Stores: A DEA Approach", Vol.1, No.1, pp1-11, 2007, Indian Retail Review.
- , R K Mishra, (2007) "Supply Chain Strategies through Identification of Uncertainty", Vol.4, No.1, pp.73-81, 2007, ICFAI Journal of Supply Chain Management
- , D K Mahalik (2006), "Corporate Environmental Responsibility- A case study of Green Building, Hyderabad", Vol. III, March 2006, pp. 120-130, Journal of Excellence, Sambalpur University
- , Sreekumar, (2006)"Data Envelopment Analysis - A Benchmarking Tool for Educational Institutes", Vol.3, No.3, Dec. 2006, pp. 31-44, Aura Journal of ISM
- , Sreekumar, (2006) "Performance Measurement of Some B-Schools in India through Data Envelopment Analysis", Vol. 9, No.2, Jul-Dec 2006, pp. 71-82, Pranjana,
- , Sree Kumar, (2005) "Measuring the Relative Performance of Some Indian MBA Programmes- A DEA Approach", July-Dec 2005, Vol-7, No-2, Business perspective
- , Sreekumar, (2005) "Relative efficiency of Colleges A DEA Approach", Vol.1, No.1, July 2005, pp. 41-50, International Journal of Management Sciences
- , R Gartia, (2004) "Application of fuzzy Linear programming for a Multipurpose Reservoir System: A Case study of Hirakud Dam project", Vol-XVI(B), 85-94,2004, Journal of Science and Technology, Sambalpur University (SUJST).
- (2004) "Use of Information Technology in University Examination: Facilitating Decision Making", Vol-20, No-3, 2004, pp. 279-290, International Journal of Management and Systems.
- (2003) "Use of Information Technology in University Examination", Vol-XIV & XV(B), 93-98,2003, Journal of Science and Techn., Sambalpur University (SUJST)
- (2003)"A Data Envelopment Analysis of Relative Performance of Some Selected colleges of Sambalpur University", Vol-XIV & XV(B), 124-129,2003, Journal of Science and Techn., Sambalpur University (SUJST)
- , Rajendra Gartia, (2003)"Application of fuzzy Linear programming Technique in Irrigation Management for Optimal Cropping Pattern", Vol- 7 (2), 2003, pp. 335-342, Indian Journal of Environ. & Eco Plan

- G N Patel & N R Sahu, (2001) "Solution of Multiobjective Mixed Solid Transportation Problem", Vol-XII, Sec-B, 100-108,2001, Journal of Science and Techn., Sambalpur University (SUJST)
- G Patel and J Tripathy, (1989) "The Solid Transportation Problems and its Variants", Vol.5, No.1, pp. 17-36, 1989, International Journal of Management and Systems
- J, C Das, (1988) "Bounds for Aggregated Solid Transportation Problem", Vol 40, 117-128, 1988, Matematik Vesnik, Yugoslavia
- J (1987) "The Transportation problem with Mixed Type of Constraints", Vol-XXV, No. 1-2, 1987, pp.75-86, Pure and Applied Matematika Sciences
- J, C Das, (1987) "A Variant of the Solid Transportation Problem", n. 42,1987, pp. 103-130, Ricerca Operativa, Italy
- J, C Das, (1987) "An Improved Disaggregation Method for Solid Transportation Problem", Vol. 3 No.2, May-Aug 1987, pp.75-85, Indian journal of Management and Systems,

## **BOOKS, CHAPTERS AND TECHNICAL REPORTS**

### **Book**

- "Relative Efficiency of Software companies in India: A Data Envelopment Analysis Based Approach", Lambert Academic publishing, Germany, 2012 (co-author: Santosh Kumar N.)

### **Book Chapters**

- "Cost Efficiencies of Principal Crops: A Comparative Study among Indian States", Dynamics of Underdevelopment of UTTAR PRADESH, Edited by Sri Prakash and H Chaturvedi, Published by BLOOMSBURY, 2012
- "Assessing Relative Efficiency of Rashtriya Swasthya BIMA Yojna- A case of Districts of Uttar Pradesh", Published in edited book "Capability Building for Organizational Transformation", edited by G D Sardana and Tojo Thatchenkery. Published by BLOOMSBURY as Academic Reference Series, 2012
- "Evaluating Performance of Categorical Decision Making Units using DEA", Published in edited book "Capability Building for Organizational Transformation", edited by G D Sardana and Tojo Thatchenkery. Published by BLOOMSBURY as Academic Reference Series, 2012

- Article “Assessment of Performance using DEA: A Case on Chain of Pharmacy Retail stores Located NCR” published in “Building Competencies for Sustainability and Organisational Excellence”, published by Macmillan, Advanced Research Series, Edited by G D Sardana and Tojo Thatchenkery, pp-319-336.
- Course Material of IGNOU on Management Research in the year 2009.

#### **EDITORIAL POSITIONS AND REVIEWS**

- Managing Editor, Journal of ORSN
- Reviewed about 30 papers of more than 15 Journals

#### **CONFERENCE, SEMINAR PAPER AND PRESENTATIONS**

- “OR in Sustainability” as key note speaker in Annual Conference, Pokhra, Nepal, <sup>st-</sup>2<sup>nd</sup> Feb,2020
- “OR in Analytics”, as key note speaker in Annual conference ORSN, Hetauda, Nepal, 1<sup>st</sup>-2<sup>nd</sup> Feb,2019
- “Use of DEAHP in Investment Problem”, IDEA Conference, Wuhan, China, 26-28<sup>th</sup> October, 2018
- “OR in Big Data Analytics” as Technical Speaker, OR Society of Iran, 2-4<sup>th</sup> May, 2018, Kermanshah, Iran.
- “Fuzzy VIKOR with TOPSIS”, ISAHP, London, 4-7<sup>th</sup> August, 2016
- “Human Resource Allocation: An AHP-LP Approach”, 48<sup>th</sup> ORSI conference, Dec 17-19, 2015
- “Determination of Drivers of Performance of Hedge Fund Strategies obtained using Slack Based DEA models”, 48<sup>th</sup> ORSI conference, Dec 17-19, 2015
- “An AHP-LP Approach Determining Eminent Drivers of Consumer Behavior”, 48<sup>th</sup> ORSI conference, Dec 17-19, 2015
- “Time Stepped Improvement using Data Envelopment Analysis”, 11<sup>th</sup> International Conference on Data Envelopment Analysis, held in Kuala Lumpur, Malaysia during 16<sup>th</sup> – 18<sup>th</sup> April 2014.
- “Customer Based Brand Equity Measurement of Sports Wear Segments in India”, ICMC, 2014. Considered as the best paper in the conference.

- “Assigning Weights to Marketing Mix Constructs for a commoditized product using Analytical Hierarchy Process”, ICMC, 2013
- “Using Neural Networks to refine benchmarks from Data Envelopment Analysis”, 11<sup>th</sup> International Conference on Data Envelopment Analysis, held in Samsung Turkey during 27<sup>th</sup> – 30<sup>th</sup> June 2013
- “Alternative Benchmarking Using DEA”, 11<sup>th</sup> International Conference on Data Envelopment Analysis, held in Samsung Turkey during 27<sup>th</sup> – 30<sup>th</sup> June 2013
- “Assessing Performance of Organized Pharmacy Retail Stores using Data Envelopment Analysis”, presented in 10<sup>th</sup> International Conference held in Natal, Brasil, 26<sup>th</sup>- 29<sup>th</sup> August, 2012.
- “Assessing Relative Efficiency of Rashtriya Swasthya BIMA Yojna- A case of Districts of Uttar Pradesh”, International Conference on Management Cases, 29-30<sup>th</sup> November, 2012. BIMTECH. Considered as the best paper in the conference.
- “Evaluating Performance of Categorical Decision Making Units using DEA”, International Conference on Management Cases, 29-30<sup>th</sup> November, 2012. BIMTECH
- “Assessment of Performance using DEA: A Case on Chain of Pharmacy Retail stores Located in NCR”. International Conference on Management Cases, Dec. 1<sup>st</sup> -2<sup>nd</sup>, 2011, BIMTECH.
- “Local Efficiency in DEA- An Approach based on Clustering”, 9<sup>th</sup> International Conference on Data Envelopment Analysis at Thessaloniki, Greece, 25<sup>th</sup> August to 27<sup>th</sup> August 2011
- “Efficiency of Indian Life Insurance Companies: A Non-Parametric Approach”, Poster presentation in 2<sup>nd</sup> International Conference on Advanced data Analytics, Business Analytics and Intelligence, January 8<sup>th</sup> – 9<sup>th</sup>, 2011, IIM, Ahmedabad.
- “Efficient Utilization of ICT and transparency in Government: A Nonparametric Approach”, 8<sup>th</sup> International Conference on Data envelopment Analysis at American University, Beirut, 10<sup>th</sup> -12<sup>th</sup> June 2010
- “Relative Efficiency of Indian B-Schools: An Alternative Approach”, 7<sup>th</sup> International Conference on Data Envelopment Analysis at Temple University, Philadelphia, 10-12<sup>th</sup> July 2009



- “Challenges and Opportunities in third party Logistics Environment ”, International Conference on “Issue and Challenges in Supply Chain Management” during 28-30<sup>th</sup> March 2008 at Dept of Mechanical Engineering, IT BHU Varanasi
- “Prioritization of IT Implementation in supply chain: A AHP and TOPSIS Approach”, 6<sup>th</sup> International Conference on Management conducted BY AIMS at IBA Grater Noida 28<sup>th</sup>-31<sup>st</sup> Dec 2008
- “Alternative Ranking of Indian Banks: A Data Envelopment Analysis Approach”, 5<sup>th</sup> International Symposium on DEA and Performance Management on the 5<sup>th</sup> to 7<sup>th</sup> Jan 2007, at ISB, Hyderabad
- “Benchmarking of Coal Mines Using Data Envelopment Analysis: A Case Study of MCL, Sambalpur”, 4<sup>th</sup> AIMS International Confernce on Management, IIM Indore, Dec. 28<sup>th</sup> -31<sup>st</sup>, 2006
- “Comparative Analysis of some B-School Ranking”, 3<sup>rd</sup> AIMS International Conference on Management, 1<sup>st</sup>-4<sup>th</sup> Jan 2006, IIM, Ahmedabad
- “Relative Efficiency of Colleges: A DEA Approach”, 5<sup>th</sup> International Conference on Operational Research for Development, Jamshedpur India 19-21 December 2005
- “Application of fuzzy Linear programming Technique in Irrigation Management for Optimal Cropping Pattern”, International Conference of Asia Pacific Operational Research Society, New Delhi, 2003
- “Use of Information Technology in University Examination: Facilitating Decision Making”, 37<sup>th</sup> Annual ORSNZ Conference, 29-30 November 2002, University of Auckland, [www.orsnz.org.nz](http://www.orsnz.org.nz)
- “Application of Fuzzy Linear programming Technique in Irrigation Management for Optimal Cropping Pattern”, International Conference on Operational Research and National Development, 2001, Kolkata, pp. 180-182
- “Use of Information Technology- A Case Study of Three Years Bachelors degree Course of Sambalpur University”, International Conference on Operational Research and National Development, 2001, Kolkata, pp. 172-174.
- “Financial Literacy and Investment Decisions of Indian Investors- A Case of Delhi and NCR”, Excellence in Research and Education Conference at IIM-Indore in May, 2010

- "Satisfaction Parameters of Women Customers in Apparel Retailing: A Case on NCR", Excellence in Research and Education Conference at IIM-Indore in May, 2010
- "Need assessment analysis of CRM Practices in Logistics Industry", National Seminar on Marketing in the Emerging Market, on 23<sup>rd</sup> Feb,2008 at RIMS, Rourkela
- "Benchmarking for Marketing Performance", National Seminar on Marketing in the Emerging Market, on 23<sup>rd</sup> Feb,2008 at RIMS, Rourkela
- "An analysis on E-commerce Model and strategies", National Seminar on Globalization and Social Impact, March 10<sup>th</sup> -11<sup>th</sup>, 2007 at RIMS Rourkela
- "Benchmarking of Steel Plants Using Data Envelopment Analysis", National Conference on Creativity & Innovation in Management, Jan 16<sup>th</sup> -17<sup>th</sup> 2007, ICFAI, Kolkata
- "A Move from BPO to KPO", Corporate Restructuring in 21st century, 31st March, 2007, held on Department of Business Administration Sambalpur University.
- "Challenges from E-governance Implementation: A case study on Sambalpur University", National Seminar on title "Competitive effectiveness in Internet Connected World",14<sup>th</sup> & 15<sup>th</sup> July 2007 at Dept of Business Admin, Sambalpur University
- "Corporate Environmental Responsibility- A case study of Green Building", National Seminar on Corporate Responsibility, Dept of Business Administration, Sambalpur University, 10<sup>th</sup> March 2006
- "Performance of Different marketing Channels for Tribal Vegetable Growers: A Case Study of Dalki, Sundargarh", National Seminar on Horticulture Marketing through Inter State Networking, 3<sup>rd</sup> -4<sup>th</sup> march, 2006, BIT, Mesra.
- "Supply Chain Management: A Customer Focus Approach", Corporate Reincarnation: Reaching New Horizon, 24th-25th Feb. 2006 held on Rourkela Institute of Management Studies, Rourkela.
- "An opportunity for Entrepreneur as a third party in E-Business: An Analysis", National Seminar , on 24<sup>th</sup> and 25<sup>th</sup> Feb 2006. RIMS Rourkela
- "Customer Relationship Management through Information Technology enables SCM: A Case study of Logistic industry", National Seminar on Supply Chain

Management, School of Management studies, University of Hyderabad, 2-4<sup>th</sup> Feb 2006.

- “Benchmarking for Supply Chain Collaboration”, Impact of Supply Chain Management practices on customer satisfaction 2<sup>nd</sup>-4<sup>th</sup> Feb. 2006, University of Hyderabad.
- “Corporate Governance: The Need of the hour”, Indian Ethos, Business Ethics,& Corporate Governance, 23<sup>rd</sup>-25<sup>th</sup> September, 2005, Institute of management, Pt. Ravi Shankar University, Raipur, Chhatisgarh.
- “Benchmarking of Retailing Outlets: Data Evolvment Analysis”, National Seminar, Roland Institute of Pharmaceutical science, Berhampur on 24<sup>th</sup> April 2005.
- “A Non-parametric Approach to measure Efficiency”, National Seminar on Mathematics, Oct. 24<sup>th</sup> – 26<sup>th</sup> , 2003, Dhamtari, Chhatisgarh
- “Application of Mathematical Programming in Irrigation Management”, ORSI, Ahmedabad Chapter, April 1996
- “Use of Information Technology in Examination System: A Case of Variable Bboundary”, Orissa Mathematical Society, Sambalpur, 1995
- “Use of Information Technology in Examination System: A Case of Sambalpur University”, Orissa Mathematical Society, Cuttack, 1994
- “Solution of Multi-objective Mixed Solid Transportation Problem”, Orissa Mathematical Society, Bhubaneswar, 1992
- “An Improved Disaggregation Method for Solid Transportation Problems”, Orissa Mathematical Society Conference, Berhampur, Orissa, 1989
- “The Transportation problem with Mixed Type of Constraints”, ISPS, Samalpur University, 1988
- “An Improved Disaggregation Method for Transportation Problems”, ORSI Conference, Jamshedpur, 1985
- “Boolean Approach to Solve Transportation Problems”, ORSI Conference, Jamshedpur, India, 1985

### **MDP SESSIONS, WORKSHOPS AND TECHNICAL LECTURES**

Conducted more than 100 days on Data Envelopment Analysis, Analytical Hierarchy Process, Data Analytics , Research Methodology

### **PROFESSIONAL ASSOCIATIONS AND MEMBERSHIPS**

Life Member, OSRI

Member, iDEAs

### **DOCTORAL DISSERTATIONS AND AWARDS**

- Nruparaj Sahu, 2002, “ Some Computational Aspects of Multi Objective Solid Transportation Problems: A Fuzzy Approach” from Sambalpur University
- Rajendra Gartia, 2004, “Management of Water Resources: An Operational Perspective of Multipurpose Hirakud Dam Project” from Sambalpur University
- Sree Kumar, 2009, “ Assessment of Relative Efficiency of Management Institutions in India: A Data Envelopment Analysis Approach” from Sambalpur University
- P.K Kar, 2009, “E-Governance: Case of University Education” from Sambalpur University (co-guide: Prof A Tripathy, IIM, Ahmedabad)
- Debendra Mahalik, 2011, “A Study on Evaluation of Information Technology Enabled Supply Chain Management: A Frontier Analysis” from Sambalpur University
- Santosh Kumar N, 2012 “Assessing the Relative Efficiency of Software Companies in India: A Data Envelopment Analysis Based Approach”, University of Mysore.
- Rohit Kumar Mishra, 2013, “Evaluation of Supply Chain Management Strategies: A Data Envelopment Analysis Approach”, Sambalpur University.
- Smriti Pande -2014 “Performance of Organised Pharmacy Retail Stores in Delhi and NCR: A Frontier Analysis Approach”, Mysore University.
- Pallavi Seth, 2015 “Assessment of Relative Efficiency Rashtriya Swasthya Bima Yojana in the Districts of Uttar Pradesh”, Mohanlal Sukhadia University
- Amarnath Bose, 2015, “Performance measurement of clustered Decision Making Units synthesizing Data Envelopment Analysis and Neural Networks” , University of Mysore
- Koushalya Bhoi, 2016 “E-Governance: A Case of National Institute of Open Schooling, India, Sambalpur University.
- Zawadi Ally, 2016 “Efficiency Measurement of Commercial Banks of Tanzania”, Mohan Lal Sukhadia University, Udaipur, Rajasthan
- Khan Nuzhat Raees Ahmed, 2016 “Technology Adoption in Teaching Learning Process in Select Management Institutions in India: An Assessment of Model Class Room”, Aligarh Muslim University

- Veenu Sharma, 2016, "A Framework for Assessment of Purchase Behavior of Brand Commodity Food Products", Fellow Programme in Management, BIMTECH.
- Amrendra Pandey, 2016 "Working of Monetary Policy: A Case Study of RBI from 1991-2015", Fellow Programme in Management, BIMTECH.
- Sumanta Das, 2016 "Assessment of Performance of Pharmaceutical Firms making Drugs for Specific Diseases Prevalent in India: A Data Envelopment Analysis Approach", University of Mysore.
- Himanshu Gupta, 2016, "Impact of Diversified Investment on Portfolio Performance: A study on 'Hedge Funds' with Special Reference to Indian Capital Market", M L Sukhadia University, Udaipur
- Kasio M Godwin, 2018, "Use of Analytic Hierarchy Process in Human Resource Allocation: A case of Bakhresa Food Products Limited". M L Sukhadia University, Udaipur