

BIO-DATA

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Name : R. Raghavendra Kumar Sharma

Date of Birth : 12 January 1959

Current Address : Qr. No. 643, Type- VI
Indian Institute of Technology,
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Permanent Address : Professor, Department of
Industrial and Management Engineering,
IIT, KANPUR 208 016 INDIA

Education : Fellow Program in Management, FPM,
(equivalent to Ph D)
Indian Institute of Management,
Ahmedabad 380 015, INDIA, (1982-1988).

B.E. (Mechanical);
Visvesvaraiyya Regional College of Engineering,
Nagpur, 440 010, INDIA. (1975-80)

Areas of Interest : (1) Operations Research
(2) Production and Operations Management
(3) Manufacturing Strategy & Strategy
(4) General Management

Marital Status : Married to Dr. Sheela Raghavendra Sharma,
M.B.B.S., M.D. (Obstetrics and Gynecology)

Children : (1) R. Shriniwas Sharma (DoB : 26 Jan 1992)
(2) R. Anjaneya Sharma (DoB : 05 May 1995)

Industrial Experience

Tata Engineering & Locomotive Company Ltd. 1980-82 (24 months).

Joined as Graduate Engineer Trainee.

Worked as Production In charge in Rear Axle Shop, Press Shop and Frame Assembly Shop. Gained experience in supervising more than hundred skilled employees.

Worked as Maintenance In charge in Rear Axle Shop, Press Shop and Frame Assembly Shop. Gained experience in maintaining various general and special purpose machines.

Worked as Design Engineer in the Machine Tool Division. Designed hydraulic and pneumatic circuits for hydraulic presses, general purpose and special purpose machines.

TVS-Suzuki Ltd. 1988-89 (9 months)

Worked as a marketing executive and in charge of MIS (marketing/management information system), directly reporting to the top management. Prepared the marketing strategy and coordinated the all India Sales. Also prepared distribution plans for over 20,000 two wheelers all over India.

Total Industrial Experience of 33 months till date.

Teaching Experience

Indian Institute of Technology, Kanpur

Lecturer (March 1, 1989-Apr 18, 1990), Department of Industrial and Management Engineering.

Assistant Professor (April 19, 1990-Dec 11, 1995), Department of Industrial and Management Engineering

Associate Professor (December 12, 1995-Sept 12, 2001), Department of Industrial and Management Engineering.

Professor (Sept. 13, 2001), Department of Industrial and Management Engineering.

Professor, HAG Scale (01 Aug 2012), (till 2012: 97 publications); Department of Industrial and Management Engineering. (545 publications during 2012-18;

Sanjay Mittal Chair Professor, IIT KANPUR; (till 2015: 124 publications) Dept of IME (15 Sept 2015 - 14 Sept 2018). (518 publications during 2015-18).

Courses Offered at IIT Kanpur

M Tech Level Courses Offered

1. Introduction to Computing

Introduction to PASCAL, concept of data structures, advanced data structures, iterative and recursive programs, implementation of OR algorithms in PASCAL such as simplex algorithm, Bala's algorithm for 0-1 integer linear programs, Actual implementation of well known algorithms such as Network simplex, Busacker's dual based algorithm for min cost network flow problems (Fall 89, 90, 96, 97,98).

2. Probability and Statistics

Elementary probability theory, conditional probability, Bayes theorem, urn models, polya's urn scheme, moment generating functions, the central limit theorem. Hypothesis testing, Anova, Design of experiments (Fall 90, 94, 95).

3. Managerial Accounting, Finance and Economics

Balance sheet, Profit and loss concepts, Accounting Principles, Ratio and Fund flow analysis, Cost of capital, Capital Budgeting. Capital asset pricing models and Portfolio Management. Cost Accounting and Managerial Economics. Extensive case studies are employed in this course. (Fall 91, 92, 93, 01, 02, 03).

4. Manufacturing Policy

Introduction to the corporate strategy, concept of organizational purpose, environmental scanning and formulation of objectives, strategy for growth such as concentric growth and diversification, strategy formulation and evaluation, managing diversity and growth, organizational structure and processes, implementation issues. Product and factory life cycle, strategic dimensions of technology, characteristics of job shops and flow shops, learning curve effects, economies of scale, resolution of conflicts between manufacturing and marketing, concept of PWP, design of organization structure of manufacturing divisions, interactions of design department with manufacturing, marketing, service and purchasing. Concept of alignment of manufacturing policy and the corporate strategy (Spring 92, 94).

5. Operations Research for Management

Linear programming theory due to Dantzig, Special classes of linear programs such as shortest path, mix. flow and minimum cost flow problems. Integer programming, Bala's algorithm for 0-1 integer linear programming problems, Non-linear programming problems. Special topics as location theory. Simple queuing problems (Fall 92).

6. Modules in Organization Behavior and Marketing

Organization Behavior

Theories of motivation, personality, and behavior in work situations. Pygmalion effect. Beliefs, attitudes and values, and their implications for motivations and reward systems. Also its implications in framing the corporate strategy and planning advertising campaigns. Dimensions of the organization structure and framework for designing an organization structure. Phases of change in the commercial organizations. Issues in organizational change and development. State-of-art research papers were used for these selected-topics.

Marketing

The concept of marketing mix, four P's of marketing, and the concept of marketing strategy. The concept of market segmentation, product positioning and its applications in demand forecasting. Marketing economy and public policy issues. In this course concepts were elaborated by the use of cases and research papers drawn from the journals (Spring-93,94).

7. Strategic Management

Introduction to the corporate strategy, concept of organizational purpose, environmental scanning and formulation of objectives, strategy for growth such as concentric growth and diversification, role of values in strategy formulation and evaluation, managing diversity and growth, choice of organizational structure and designing systems to support the implementation of the strategy. Power and politics in organizations, importance of culture in merger and acquisitions. Choice of managers profile to be in tune with strategy type chosen, 7-S framework of strategy implementation. (Spring-94, 96, 97, 99).

8. Human Resource Management

Leadership styles, participative management, job enlargement and enrichment, job evaluation, methods of framing the incentives of the executives, work attitudes, job satisfaction typology of organization character. Matching individuals to the jobs and the organization. Introduction to role theory. Theories of job attitudes and motivation (task oriented, social information processing theory and the personal dispositional approach) and its implications for task design, personnel selection, and organizational development programs. Introduction to leadership theory, group processes and its implications for organization structure design. Requirements of managerial traits for implementing different strategies. Theories of informal organization structure, and introduction to group think. The course is primarily based on journal article. (Spring-94).

9. Marketing

The concept of marketing mix, four P's of marketing, and the concept of marketing strategy. The concept of market segmentation, product positioning and its applications in demand forecasting. Marketing economy and public policy issues. In this course concepts were elaborated by the use of cases and research papers drawn from the journals. (Spring-95).

10. Computer aided Decision Systems

Introduction to databases, file organization methods, relational databases, n th normal form, schema and sub-schema, combining various user schemas and preparation of canonical database, designing databases, query languages, calculus, relational algebra, query optimization. Introduction to simulation. Fixed and variable time increment scheme, random number generation, introduction to ARENA and QUEST. Designing decision support systems.(Spring98,99).

11. Operations Management

Inventory models, EOQ, multi item inventory models, Wagner-Whitin, Serial production inventory models (Stephen Love and Zoller), Transaction reporting models, Periodic Review Inventory Models, Newspaper boy model, Multilevel inventory models using genetic algorithms and lagrangian relaxation. Introduction to theory of NP-completeness and NP-Hardness and its implications for a large class of scheduling problems. Survey of various scheduling rules, Shifting bottleneck assignment solution procedure, Discussion of performance of Critical Ratio Rule in scheduling literature. Decisions in large production systems : Aggregate production planning models (LP, Linear Decision Rules, MILP models), Dis-aggregation models (EROT procedure), Decisions in MRP systems and interactions among them, multi pass heuristics in MRP context, discussion on JIT systems, embedding JIT into MRP system, Discussion on OPT. (Spring 02)

12. Design of Production Systems

Product design strategies, capacity planning strategies, Forecasting, moving averages, exponential smoothing, simple and multiple regression models for forecasting, ARIMA models, Theories of plant location problems, simple plant location problems (SPLP), weak and strong relaxations of SPLP, dual ascent procedure due to ERLANKOTTER for SPLP, capacitated plant location problems (CPLP), strengths of various relaxations of CPLP, comparing different strategies for multistage warehouse location problems as available in literature, Plant layout problems, study of selected papers on layout planning problems, including pairwise exchange method, dynamic programming method, genetic algorithm, clustering approaches, math programming methods. Project management, study of selected papers on resource leveling in project management literature. Algorithms to prepare PERT networks, various formulations of resource constrained project scheduling problems, resource leveling heuristics and resource allocation heuristics. (Spring 03, 04).

B. Tech. Level Courses Offered

13. Operations and Control of Production Systems

Introduction to inventory models, transaction reporting and periodic review models, newspaper boy problems, job shop scheduling, assembly line balancing, material requirement planning systems, network based lot sizing models for serial production systems, pure assembly systems, acyclic lot sizing models, aggregation and dis-aggregation models, linear decision rule, MRP and JIT systems, maintenance management, quality control systems, reliability theory, and introduction to

manufacturing policy making.(Spring-90,91).

14. Cost and Financial Management

Balance sheet, Profit and loss concepts, Accounting Principles, Ratio and Fund flow analysis, Cost of capital, Capital Budgeting. Capital asset pricing models and Portfolio Management. Cost Accounting. Extensive case studies are employed in this course. Introduction to activity based cost accounting system. (Spring-91,. 92, 96, 97).

Courses for the MBA

15. Organization Behavior

Micro O.B.

Eight stages of man, transactional analysis, personality and attitudes, perception and attribution, theories of motivation, pygmalion in management, saliency effect on extrinsic and intrinsic factors of motivation, job attitudes, social information processing (SIP) theory and dispositional approach to job attitudes, job enlargement and job enrichment, beliefs, attitudes and values; and its effect on corporate strategy, theories of leadership, individual problem solving styles (ST, SF, NT and NF etc.) and its role on strategy making processes chosen by the small firms, interpersonal communication.

Macro O.B.

Power and politics in organizations, bases of organizational power, organizational structure, formal and informal organizational structure, dimensions of organizational structure, culture and sub culture of organizations, strategies to change the organizational culture, culture as a bottleneck in merger and acquisitions, relating strategies to structure and culture, processes in organizations and processes as bases for organizational structure design. (Fall 02).

16. Production and Operations Management

Introduction to POMS area, mass production, job shop, FMS, project management etc., assembly line balancing, introductory modules on scheduling, inventory management, forecasting. Workforce planning models, decisions in large systems such as MRP, FMS, OPT, ERP etc., manufacturing strategy, issues on supply chain management. Introduction to manufacturing strategy. (Fall 03, 04)

17. Manufacturing Policy

Introduction to the corporate strategy, concept of organizational purpose, environmental scanning and formulation of objectives, strategy for growth such as concentric growth and diversification, strategy formulation and evaluation, managing diversity and growth, organizational structure and processes, implementation issues. Product and factory life cycle, strategic dimensions of technology, characteristics of job shops and flow shops, learning curve effects, economies of scale, resolution of conflicts between manufacturing and marketing, concept of PWP, design of organization structure of manufacturing divisions, interactions of design department with manufacturing, marketing, service and purchasing. Concept of alignment of manufacturing policy and the corporate strategy (Fall 05, 06).

18. Manufacturing Planning and Control

Inventory management, scheduling, workforce planning models (linear decision rule etc), Large Scale systems such as MRP, JIT, OPT, FMS etc. Facilities location and layout problems, Project Planning and Management. Case studies are extensively used. (Spring 05, 06, 07).

19. Manufacturing Strategy & Systems

Introduction to strategy, manufacturing strategy and relating the two. How to evaluate corporate strategy, manufacturing structure and infrastructure development, make or buy, Manufacturing focus : The PWP concept. Taxonomy of manufacturing strategies. Types of production systems, quality systems, quality control, Deming management and the quality management. Taguchi methods of quality engineering, experimental designs, Value Stream mapping, modularity and mass customization. Vendor and supplier development. (Fall 06).

(This course was offered jointly (by the use of advanced internet technologies) by Prof. RRK Sharma, IIT KANPUR and Prof. Ed Arnheiter, RPI, USA; and taken by second year MBA students of IIT KANPUR and second year MBA students at Hartford, Lally School of Management, Rensselaer Polytechnique Institute, USA.)

20. International Business

International marketing; International finance; hedging strategies; taking loan in local currencies; multinational finance; centralization Vs decentralization in the multinational finance function; Collaborative strategies; wholly owned subsidiaries; joint ventures; equity based alliances; Control strategies: bureaucratic controls; output oriented controls; clan control; staffing control and normative controls; organization structure of international operations: functional; geographic divisions; matrix structure; cross national teams; network organizations; Country evaluation and selection; ethnocentricity; adaptation to local culture and the integrative approach to international business.

(This course was offered to AMBA students of the College of Management: National Yunlin University of Science and Technology, Taiwan; May-June 2008)

21. International HRM

Expatriation and repatriation: role of corporate management in making the change and adjustment process easier; international travel: stress; women in international assignments; managerial characteristics for success of expats; ethnocentricity; adaptation to local culture and the integrative approach to international HRM; role of culture in designing compensation in international HR; issues in international industrial relations; Hofstede's cultural dimensions; how to manage in different cultures; knowledge transfers across different international divisions; developing global managers.

**(This course was offered to AMBA students of the College of Management:
National Yunlin University of Science and Technology, Taiwan; May-June 2008)**

22. Supply Chain management

Modeling different supply chain situations, typically the cost minimization models. Eight chapters from the HBS on supply chains; Zara's business model with reference to supply chains; Tripple A supply chain. IT and supply chain strategy; Buffering and Bridging strategy; Category management; SCOR model its advantages and its limitations; BPR and global supply chains; HR practices and supply chains; Quality and Supply chains; RFID; Use of IT and command and control to humans for flexibility in supply chains; Role of culture in improved agility and adaptability; postponement as a strategy to manage risks in supply chains. Case Studies. Winter 2012.

Courses Offered for the Industry

1. Conducted a course on simulation for the executives (including a few senior level executives) of the RDSO (Research Designs and Standards Organization), Lucknow during May 29-June 4, 1989.
2. Offered lectures in a course titled, “Computer Integrated Manufacturing” for executives from industries and engineering colleges in India on “Introduction to data bases”.
3. Conducted QIP course for teachers of engineering colleges and managers from industry on “Manufacturing Strategy” during May 17-24, 1996.
4. Conducted QIP course on “OR techniques for Production Management” for teachers of engineering colleges and managers of industry during Dec. 18-24, 1996.
5. Conducted self financed course on “Manufacturing Strategy for Competitiveness” for General Managers of Manufacturing Organizations during Dec. 1-2, 1997.
6. Conducted self financed course on “Marketing Strategy” for general managers from industry during Dec. 14-21, 1999.
7. Conducted one day course titled, “MRP Systems: Heuristics for Improved Performance” on 3 OCT 2009 for industry and academia.
8. Conducted one day course titled, “Cost Minimization in Supply Chains” on 12 APR 2010 for industry and academia.
9. Conducted one day course titled, “Strategy, Structure and Systems for Organizations” on 07 APR 2011 for industry and academia.
10. Conducted one day course titled, “Strategy, Structure and Culture for TQM” on 14 JAN 2012 for industry and academia.
11. Conducted 5 day course on SUPPLY CHAIN MANAGEMENT for academia and industry: Feb 4-8; 2015; at IIT KANPUR.
12. Conducted 5 day course on ADVANCED MFG MANAGEMENT for executives of Ordnance Factories of INDIA at NADP NGP: July 6-10; 2015.
13. Conducted 5 day course on TECHNOLOGY STRATEGY ND FORECASTING for scientists of DRDO (Defense Research and Development Organization) INDIA at DRDO Bhawan New Delhi: Jan 18-22; 2016.

Teaching Material Developed: Cases Written

Written a case in the area of simulation based on the industrial experience at BHEL, Jhansi, INDIA.

Administrative Responsibilities

Computer Coordinator for the Department of Industrial and Management Engineering, IIT Kanpur;

DUGC (Departmental Undergraduate Courses Committee) convener for the Department of Industrial and Management Engineering, IIT Kanpur

DPGC (Departmental Postgraduate Courses Committee) convener for the Department of Industrial and Management Engineering, IIT Kanpur

Placement Coordinator for the Department of Industrial and Management Engineering, IIT Kanpur.

Head, Department of Industrial and Management Engineering, IIT Kanpur (05-07).

Coordinator, course curriculum committee, M.B.A. program, IME department, I.I.T., Kanpur.

Total full time teaching experience 26 years at IIT Kanpur.

Honors

Ranked 14th in the merit list of H.S.S.C. exam in the Vibharda (in Maharashtra State) region.

Awarded merit scholarship in engineering college for first three years.

Referee: OPSEARCH journal, India since 1998; International Journal of Product Development since 2006; Journal of Computational and Applied Mathematics since 2006; Journal of Robotics and Computer Integrated Manufacturing since 2007; AIMS International Journal of Management since 2007, Handbook of Technology Management: John Wiley, USA, Feb 08, European Journal of Operational Research since 2008, Decision 2008, International Journal of Engineering and Science and Technology since 2009.

International Advisory Council, International Conference on Operations and Quantitative Methods – VII, Jaipur India, Aug 3-5, 2006.

Honorary Appointment to Research Council of International Biographical Centre, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND.

Invited to Join the Editorial Board of AIMS International Journal of Management.

Member, Board of Governors, STEP, HBTI, Kanpur.

Member, Board of Governors, International Academy of Business and Economics, USA; 2008.

Member, Board of Governors, Society of Management Science, IIM Ahmedabad, India; 2008.

Key Note Speaker, at Fourth International Conference on Logistics and Supply Chain Management, Aug 7-9, 2008, Organized by Centre of Supply Chain Management, PSG College of Technology, Coimbatore and Central Michigan University, Mt. Pleasant, MI 48859, USA; “Facility (Warehouse) Location on Supply Chains”; Aug 9, 2008.

Member, evaluation committee for professors, Weldon School of BioMedical Engineering, Purdue University, MJIS Building, 206 S Martin Jischke Drive, West Lafayette, IN 47907-2032 USA; 001-765-494-2998; Also member of selection committee IIT KGP (Dept of ISE IIT KGP (2015 & 2018); .

Member, selection committee for professors, OPERATIONS MANAGEMENT GROUP, I.I.M., Lucknow, UP INDIA.

Editor: American Journal of Operations Research; Mar 20, 2011 – Mar 19, 2012.

Key Note Speaker, at the Tenth International Conference on Operations and Quantitative Management, June 28-30, 2011, Organized by Symbiosis Institute of Operations Management & AIMS International; “Location-Distribution Problems in the Indian Context: Research Done for the Last 20 Years”, June 29, 2011.

AWARDS

1. **VIJAYSHREE AWARD, 2005**, India International Friendship Society, New Delhi, Award given at the hands of Honorable Minister Shri Haroon Yusuf, Minister for Transport and Power, Govt of Delhi.
2. **GLORY OF INDIA GOLD MEDAL, 2005**, International Institute of Success Awareness, New Delhi, Award given at the hands of Dr Bhisham Narain Singh, Honorable Ex Governor of Tamil Nadu State, India.
3. **Prof. RRK Sharma, biography included** in the book titled, “**2000 outstanding intellectuals of the 21 st century**” edited by Sara Rains, International Biographical Centre, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND, 2007, Fourth Edition, p. 526.
ISBN : 1 903986 25 7
4. **Prof. RRK Sharma, LFIBA, Life Fellow, International Biographical Association**, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND.
5. **Prof. RRK Sharma, The IBC Leading Educators of the World 2005, International Biographical Centre**, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND.
6. **Prof. RRK Sharma, The IBC Decree of Excellence, International Biographical Centre**, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND.
7. **Prof. RRK Sharma, Deputy Director General, International Biographical Centre**, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND.
8. **Prof. RRK Sharma, Hon. Director General, International Biographical Centre**, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND.
9. **Prof. RRK Sharma, The Archimedes Award, International Biographical Centre**, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND; to be received at OXFORD UNIVERSITY, ENGLAND in 2006.
10. **Prof. RRK Sharma, The AMERICAN MEDAL OF HONOR (received medal number 9 out of 100), American Biographical Institute Inc.**, 5126 Bur Oak Circle, PO Box 31226, North Carolina, 27622, USA. Web : www.abiworldwide.com
11. **Prof. RRK Sharma, nomination to IBC’s Hall of Fame, International Biographical Centre**, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND.
12. **Prof. RRK Sharma, nomination to IBC’s Life Time Achievement Award, International Biographical Centre**, St. Thomas Place, Ely, Cambridgeshire, CB7 4GG ENGLAND.

13. **Prof. RRK Sharma, nominated as 2006 Man of The Year, American Biographical Institute Inc.,** 5126 Bur Oak Circle, PO Box 31226, North Carolina, 27622, USA. Web : www.abiworldwide.com
14. **Prof. RRK Sharma, biographee, Marquis Who's Who in Asia,** 890 Mountain Ave, Suite 300, New Providence, NJ 07974, United States of America.
15. **Prof. RRK Sharma, biographee, Marquis Who's Who in Science and Engineering,** 890 Mountain Ave, Suite 300, New Providence, NJ 07974, United States of America.
16. **Prof. R.R.K. Sharma, Invited to Join the Editorial Board of AIMS International Journal of Management,** <http://www.aims-international.org/aijm/editorial.htm>
17. **Prof. RRK Sharma, nominated as 2008 Man of The Year, American Biographical Institute Inc.,** 5126 Bur Oak Circle, PO Box 31226, North Carolina, 27622, USA. Web : www.abiworldwide.com
18. **Prof. RRK Sharma, Judged as OUTSTANDING EDITOR : AIMS International Journal of Management,** at AIMS-6 conference, Dec 28-31, 2008; held at Greater Noida.
19. **Prof. RRK Sharma, Judged as OUTSTANDING MANAGEMENT RESEARCHER,** at AIMS-7 conference, Dec 20-22, 2009; held at IIM Bangalore, India. Award given at the hands of Prof. MR Rao (Ex Director: IIM BANGALORE INDIA and Ex Dean Indian School of Business, Hyderabad, INDIA).
20. **Prof. RRK Sharma, awarded the title of “FELLOW of AIMS INTERNATIONAL”,** at AIMS-9 conference, Jan 1-4, 2012; FLAME PUNE, India.
21. **Prof. RRK Sharma, recipient of the Dr Manubhai M Shah Memorial Award 2013 instituted by the INDIAN COMMERCE ASSOCIATION (ICA). Award carried a cash prize of Rs 1 Lakh, trophy and a certificate of excellence. Award given at the 66 Annual Conference of ICA at BANGALORE UNIVERSITY on 5 DEC 2013.**
22. **Prof. RRK Sharma, recipient of the “MEMBERSHIP AWARD” given by IABE 2015 (International Academy of Business and Economics; USA); 2015.**
23. **Prof. RRK Sharma, recognized as “Distinguished Scientist”, by Venus International Foundation Research Awards 2015 (VIFRA 2015) at CENTRE FOR ADVANCED RESEARCH AND DESIGN; Chennai: Dec 19; 2015.**
24. **Prof. RRK Sharma, “Distinguished Educator Award”, selected by IEOM (Industrial Engineering and Operations Management) Society, USA; 2016. Award given on Mar 9; 2016 at Kuala Lumpur.**

25. **Prof. RRK Sharma** and Somen Dey, Paper No. IC 36 below adjudged as BEST TRACK PAPER in OPERATIONS MANAGEMENT; at IEOM conference Apr 11-13; 2017; RABAT; MOROCCO.
26. **Prof. RRK Sharma**, “One of the Top Ten Knowledge Producers in India for the Academic Year 2017-18”; Faculty Research Award Career 360, 2017-18.
27. Google Scholar: Ranked 3 rd in the category of Mfg Strategy: in 2018.
https://scholar.google.co.in/citations?view_op=search_authors&hl=en&mauthors=label:manufacturing_strategy;
28. Google Scholar: Ranked 4 th in the category of General Management: in 2018.
https://scholar.google.co.in/citations?view_op=search_authors&hl=en&mauthors=label:general_management;
29. Invited by Ministry of HRD government of INDIA as expert in NIRF (National Institutional Ranking Framework) Survey 2019.

Publications

Book(s)

1. Devjani Chatterjee and RRK Sharma, "Choosing Right Control System for Organizational Strategies", LAP LAMBERT Academic Publishing, Germany, 2012; ISBN 978-3-659-24386-8.

Research Monograph(s)

1. Sharma, R.R.K., "Heuristics for Improved Performance in MRP Context", Vitasta Publishing House, (A Division of Thieme International Development Office, South Asia), New Delhi, 2008; ISBN 81-89766-20-1. A collection of 11 articles).
2. RRK Sharma, "Advances in Information Technology/Systems and manufacturing Systems"; LAP LAMBERT Academic Publishing, Germany, (2018). A Collection of 42 papers (All Authored by Prof. RRK Sharma). ISBN-13: 978-613-87800-0; ISBN-10: 6139878004.
3. RRK Sharma, "RELATING ORGANIZATIONAL VARIABLES TO FUNCTIONAL AREAS OF THE FIRM", LAP LAMBERT Academic Publishing, Germany, (2018). A Collection of 42 papers. (All Authored by Prof. RRK Sharma). ISBN: 978-613-897-3
4. RRK Sharma, "RELATING PERSONALITY, CULTURE AND INFORMATION SYSTEMS, INNOVATION TO STRATEGY", LAP LAMBERT Academic Publishing, Germany (2018). A Collection of 42 papers. (All Authored by Prof. RRK Sharma). ISBN: 978-3-659-88509-9.
5. RRK Sharma, "ARTICLES IN OPERATIONS AND SUPPLY CHAIN MANAGEMENT"; A Collection of 09 papers in all of these Prof. RRK Sharma is the first or second author. Lap Lambert Academic Publishing; 2018. ISBN: 978-613-9-91751-8
6. RRK Sharma, "Research Topics in Organizational Variables: Strategy, Structure and Systems", A collection of 161 articles, (All Authored by Prof. RRK Sharma). EXCEL PUBLISHERS NEW DELHI, 2018. ISBN: 9-789-388-237116.
7. RRK Sharma, "Research Topics in Organizational Variables: Strategy, Structure and Systems: Part 2", A collection of 135 articles, (All Authored by Prof. RRK Sharma); EXCEL PUBLISHERS NEW DELHI, Jan 16, 2019. ISBN: 978-93-88237-41-3

Chapter(s) in Book(s)

1. Sharma, R.R.K., "An Application of Lagrangian Relaxation Based Approach to the Bulk Commodity Problem", "Recent Developments in Mathematical Programming", Chapter 23, edited by Dr. Santosh Kumar, Gordon and Breach Science Publishers, London. 1991, pp.369-382.
ISBN 2-88124-800-4 (Soft cover)
ISBN 2-88124-820-9 (Hard cover)
2. Sharma, R.R.K., Shukla, P.R. and Tripathy, A., "Application of Benders' Decomposition-Lagrangian relaxation based Algorithm to the Warehouse Location Problems" in "Large Scale Optimization", edited by Dr.A. Tripathy, Ch.5., Oxford and IBH Publishing Company Pvt. Ltd., 1991, pp. 58-90.
ISBN 81-204-0593-5.
3. Sharma, R.R.K., "Food grains distribution in the Indian context: An operational study", in "Operations Research for Development", Ahmedabad, India; Chapter 5, Eds. Prof. A. Tripathy and Prof. J. Rosenhead, New Age International Publishers, New Delhi, 1996, pp. 212-227.
ISBN 81-224-1016-2.
4. Sharma, R.R.K. and Sinha, Sharat, "A Sequencing based Multipass Heuristic for Improved Performance of MRP Context", in Lecture Notes in Operations Research", Part-7, Eds. Prof. Du, Prof. Zhang and Prof. Cheng, Beijing World Publishing Corporation, Beijing, 1996, pp. 659-668.
ISBN 7-5062-2023-7.
5. Sharma, R.R.K., "Processes of manufacturing and corporate strategy making : Mutual influence and performance", Innovation In Technology management : The Key to Global Leadership", Eds. Dunder F Kocaoglu et.al., Portland State University, Portland Oregon, USA., pp. 631- 634, Published by the PICMET, Portland State University, Engineering Management Program, Portland Oregon, 97207-0751, USA, 1997.
ISBN 1-890843-00-8
6. Sharma, R.R.K., "Heuristic to modify lot sizes to improve performance in MRP Context", Industrial Engineering Encyclopedia, published by International Journal of Industrial Engineering, USA, 1999.
ISBN 0-9654599-X
7. Sharma, R.R.K. and Rao, M.V., "Application of Genetic Algorithm to Single level Lot Sizing Problem with Shortage Costs", Operations management for Global Economy, Ed. Arun Kanda et. al., Phoenix Publishing House Pvt. Ltd., New Delhi, pp. 572-581, 1999.
ISBN 81-7484-030-3
8. Sharma, R.R.K. and Reddy, V.R.K., Difficulty in aligning Manufacturing Decisions with Objectives in Dynamic Environments", Operations management For Global Economy, Ed. Arun Kanda et. al., Phoenix Publishing House Pvt. Ltd., New Delhi, pp. 640-651, 1999.

ISBN 81-7484-030-3

9. Sharma, R.R.K. and Berry, V., “Developing New Formulations and Relaxations of Single Stage Capacitated Warehouse Location Problem (SSCWLP) : Empirical Investigation for Assessing Relative Strengths and Computational Effort”, Logistics and Global Outsourcing, Kulwant S. Pawar, Chandra S. Lalwani and Janat Shah (Eds.), pp. 286-291, 2004.
ISBN : 0 85358 129 0.
10. Sharma, R.R.K. and Pankaj, K., “A new GA based procedure for solving the portfolio selection problem”, Proceedings, National Conference on Management Science and Practice – held in honor of Prof. J.L. Saha at I.I.M., Ahmedabad, 380 015, India during Mar 31 – Apr 1, 2006, Ed. Prof. N. Ravichandran, pp. 107-114, 2007,
ISBN 81-8424-186-0.
11. Singh, S.P. and Sharma, R.R.K., “A Hybrid Genetic Search Based Approach to Solve Single Period Facility Layout Problem”, Proceedings, Asia Pacific Management Conference, XII, 2006, AIT, Bangkok, Thailand, pp. 1311-1315.
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2. Sharma, R.R.K. and Namdeo, S., "Two stage capacitated warehouse location problem : Developing new strong constraints", *Proceedings, Fifth International Conference on Operational Research for Development : ICORD V*", held at Jamshedpur, INDIA during Dec. 19-21, 2005, pp. 330-333.
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8. Sharadindu Pandey and R.R.K. Sharma, "Managing Transformational Change in Prospectors and Defenders", *IABE Proceedings (ISSN 1931-7498), Stockholm, Vol.4, Number 1, pp.71-84, 2008*.
9. Verma Mayank, Mehta P, Sharma R.R.K.; *Supply Chain of Natural Gas: An Indian Perspective*; *Proceedings of International Conference on the Issues and Challenges in Supply Chain Management*; pp 173-178, IT-BHU; 28-30 Mar '08.
10. Su, F.-P., Lai, K.-K., Yang, W.-G., Sharma, R.R.K.; "A heuristic procedure to identify most valuable chain of patents in a given technology"; 2009 PICMET Portland

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12. Verma, Mayank and Sharma, RRK, "Multi item multi period capacitated lot sizing problem with backorders and setup considerations: strong and weak formulations", IEEE Transactions in China, 2010; pp. 195-199, ISBN 978-1-4244-7117-1/10.
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16. Devjani Chatterjee and Sharma, RRK, "Comparing Innovators Engaged in Ambidexterity: Case of Two Multinational Giants", Proceeding of 2013 IEEE Conference on Business Innovation and Technology Management Conference held during May 17-19; 2013; Beijing; China; 978-1-4673-5570-4 /13/\$31.00 ©2013 IEEE.
17. RRK Sharma, Ajay Jha and Sandeep Rajput, "Developing Proprietary or Open Source Technology: Learnings from Five Case Studies", IEEM 2013; 12 Dec 2013; Thailand, Bangkok; 978-1-4799-0986-5/13/\$31.00 ©2013 IEEE; pp. 1505-1509.
18. Pratima Verma and RRK Sharma, "The Linkages Among Horizontal Strategy, Person-Environment fit and Strategic Human Resource Management", Proceedings of the IEEE conference on IEEM, Singapore, Dec 6-9; 2015; Publication in IEEE Explore; 978-1-4673-8066-9/15/\$31.00 ©2015 IEEE; pp. 140-144.
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23. Tesfaye, TF and RRK Sharma, "Determinants of the Scope of the Supply Chain in E-corporation", Proceedings of the 2016 International Conference on the Industrial Engineering and Operations Management, Kuala Lumpur, March 8-10; 2016; pp. 31-37.
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25. Tesfaye, TF and RRK Sharma, "Relating Adaptability, Alignment, Flexibility and E-integration of Supply Chain to Environmental Uncertainty, Market Competition and Firm Performance", Proceedings of the 2016 International Conference on the Industrial Engineering and Operations Management, Kuala Lumpur, March 8-10; 2016; pp. 45-52.
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28. Teklehaimanot, TK and RRK Sharma, "Factors Affecting Consumers' Purchasing Decision through E-commerce", Proceedings of the 2016 International Conference on the Industrial Engineering and Operations Management, Kuala Lumpur, March 8-10; 2016; pp. 159-165.
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43. Anjali Sharma and RRK Sharma, "Consumer Switching Behavior in E-Services: Organizational and Technological antecedents through relational paradigm"; 8th International Conference in Industrial Engineering and Operations Management, Bandung, Indonesia, March 6-8, 2018; pp. 1052-1061.
44. Anjali Sharma and RRK Sharma; "Culture and Consumer Brand switching: Moderating role of Consumer Involvement and Service Value"; 8th International Conference in Industrial Engineering and Operations Management, Bandung, Indonesia, March 6-8, 2018; pp. 683-680.
45. Pratima V, Vimal Kumar and Sharma, RRK; "Business Strategy with Explorative and Exploitation: Role of Analytics and SMAC Technology"; 8th International Conference in Industrial Engineering and Operations Management, Bandung, Indonesia, March 6-8, 2018. (accepted, to appear);
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47. Vinayak Drave and RRK Sharma, "Relating Flexibility, Scalability and Security Issues In Internet of Things (IoT) To Strategy of the Firm"; 2th International Conference in Industrial Engineering and Operations Management, Paris, July 6-8, 2018. (accepted, to appear);
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59. RRK Sharma, Vinayak Drave and A. Rahman, "ENTERPRISE SOCIAL MEDIA (ESM): AN INTEGRATED VIEW", International Conference on Management and Information Systems organized in Bangkok during September 21-22, 2018. (accepted, to appear).

60. RRK Sharma and Priyank Sinha, "Personality of Investors and Traders", International Conference on Management and Information Systems organized in Bangkok during September 21-22, 2018, (accepted, to appear)..
61. RRK Sharma, NK Tripathi, "Relating Analytics to Strategy, Culture and Personalities involved in Decision Making", International Conference on Management and Information Systems organized in Bangkok during September 21-22, 2018. (accepted, to appear).
62. RRK Sharma and Somen Dey, "Managing Tacit and Explicit Knowledge", International Conference on Management and Information Systems organized in Bangkok during September 21-22, 2018. (accepted, to appear).
63. RRK Sharma, "AN ATTEMPT TO RESOLVE ENTITY AND INCREMENTAL THEORY OF CONSUMER BEHAVIOR", International Conference on Management and Information Systems organized in Bangkok during September 21-22, 2018. (accepted, to appear).
64. RRK Sharma, "A New Formulation for Machine Loading Problem In FMS (Flexible Manufacturing System)", International Conference on Management and Information Systems organized in Bangkok during September 21-22, 2018. (accepted, to appear).
65. Sheela R Sharma, RRK Sharma and Ajay Jha; Comparing Products and (Medical) Services On Few Organizational Variables: A Theoretical Framework; IEOM 019 Bangkok, Mar 5-7, 2019 (accepted, to appear).
66. Sheela R Sharma, RRK Sharma and Ajay Jha; Management Control Systems (MCS) in Hospitals; IEOM 2019 Bangkok, Mar 5-7, 2019 (accepted, to appear).
67. Sheela R Sharma, Ajay Jha and RRK Sharma; ERP FOR SERVICE SECTOR AND MEDICAL SERVICE; IEOM 2019 Bangkok, Mar 5-7, 2019 (accepted, to appear).
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71. RRK Sharma, "Highlights of transition of Industrial Engineering (1901) to e-industrial engineering 2019" Talk as keynote speaker, Industrial Engineering 2019; to be held at Dubai, Sept 11-12, 2019 (accepted). .
72. RRK Sharma, 'A new approach to aggregate planning by using LP', Industrial Engineering 2019; to be held at Dubai, Sept 11-12, 2019 (accepted).

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Distribution of Papers of Prof. RRK Sharma across areas:

	Operations Research	Operations Management	Qualitative Areas Strategy etc.
Book Chapters: 23	6	5	12
Journal Articles:110	28	16	66
Int Conf (published):73	4	13	56
TOTAL: 206	38	34	134

Distribution of Papers of Prof. RRK Sharma across areas in Research monographs (Extended Abstracts)

	Operations Research	Operations Management	Qualitative Areas Strategy etc.
Research Monograph 2	0	0	42
Research Monograph 3	0	0	42
Research Monograph 4	1	1	40
Research Monograph 6	3	4	154
Research Monograph 7	6	4	125
TOTAL: 422	10	9	403

Total No Of Qualitative Papers: 537; (In Information Technology/Systems: 126).

Total No Of OM Papers: 43

Total No Of OR Papers: 48

Total No Of Papers In Monographs 1 & 5: 17

Total No Of Publications: 507 + 135 = 645

16 Articles Under Review (16);

Total No Of Articles in near future: 661;

WORK IN PROCESS:

1. Niraj (2); Pratima (1); Saha (2); Ajay (2); Vinayak (2); Somen (2); Ajay (2); Tekle (2); Vinay Singh (1);

Technical Reports

Sharma, R.R.K., “Food grains distribution in the Indian context: Report No.1”, submitted to the Department of Science and Technology, Govt of India, New Mehrauli, Road, Technology Bhavan, New Delhi, India, Sept., 1992.

Sharma, R.R.K., “Food grains distribution in the Indian context: Report No.2”, submitted to the Department of Science and Technology, Govt of India, New Mehrauli, Road, Technology Bhavan, New Delhi, India, July, 1993.

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Visits to Foreign Universities

1. Visiting Professor, Mazandaran University of Science and Technology, Babol, IRAN. (Nov 2004 – Dec 2004).
2. Visiting Professor, National Yunlin University of Science and Technology, Taiwan. (May 2008 – June 2008; Dec 2008; May, 25 - June, 07, 2009).
3. Offered Visiting Professor (for 2 years), Universiti Utara Malaysia, 06010 UUM Sintok, Kedah Darul Aman, Malaysia; Could not go as leave was NOT granted.

M.Tech. Theses Supervised

1. Potty, V., "Simulation of Heuristic Procedures in the MRP Environment", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1990).
2. Paradkar, S.S., "Scheduling of Loaded and Empty Wagons for Goods Transportation by the Railways", M.Tech. thesis of the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1991).
3. Yoganandan, Y., "Coordinated Scheduling in Material Requirement Planning Systems", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1992).
4. Majumdar, S., "Mean-Variance based approach to portfolio revision", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1993).
5. Sreekanth, S., "Dynamic nature of alignment between manufacturing strategy and corporate strategy: A conceptual framework", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1993).
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7. Sinha, S., "Heuristics for improved coordination in MRP systems", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1994).
8. Ghosh, A., "Processes of Corporate and Manufacturing Strategy Making: Mutual influence and Effect on Performance", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1996).
9. Tripathy, P.R., "Role of Culture in Superior Performance", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1996).
10. Upadhyaya, S., "Relating Manufacturing Policy making process to its contents", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1997).
11. Purwar, P., "Matching managerial information processing modes and strategy making processes used by them", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur

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12. Arora, R., "Lot sizing rules in pure assembly systems", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1997).
 13. Gupta, S., "Heuristics for improved performance in MRP systems with capacity imbalance", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1997).
 14. Rao, M.V., "Genetic Algorithm for multilevel lot sizing problem with shortage cost", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (completed 1998).
 15. Sharma, K.D., "An $O(n^2)$ heuristic for the simple transportation problems", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1998).
 16. Saxena, Amit , "A new heuristic procedure for the Trans-shipment problem" , M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1999).
 17. Reddy, V.R.K., "A dynamic model of Manufacturing strategy", M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1999).
 18. Saumya Prasad, "Developing a good heuristic for simple transportation problem", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (completed 2000).
 19. Muralidhar, A., "A New Approach for the Simple Transportation Problem", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2000).
 20. Wadhvani, V., "Comparing relative performance of lot sizing and scheduling based multiass heuristics in MRP systems", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2000).
 21. Behera, A., "Verifying theory of dynamic model of manufacturing strategy : More evidence", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2000).
 22. Baitha, N., "Relating environment, personality and strategy making process for small firms", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2000).
 23. Agarwal, S., "Comparative performance of different multipass heuristics in the context of MRP systems", , Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2001).

24. Shrotriya, S., "Relating objectives and processes to manufacturing decisions : A study of German and Indian manufacturing firms", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2001).
25. Binay, K., "Developing new relaxations of capacitated plant location problem : An empirical investigation of their effectiveness", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2001).
26. Bhagat, B.N., "Towards a comprehensive framework of various flexibility measures : A case study of medium sized steel plant", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2001).
27. Berry, Vishal, "Developing different formulations of SSCWLP (single stage capacitated warehouse location problem) and empirically establishing relative strengths of many of its relaxations", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2003).
28. Gupta, Ravindra, "A few findings related to simple plant location problem", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2003).
29. Mishra, Sunil Kumar, "Empirically verifying efficacy of good solutions given by heuristic due to Sharma and Prasad [EJOR, 2003] for the simple transportation problem", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2003).
30. Hardih Shah, "Design and Flexibility Measurements of Disassembly Network", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2003).
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32. Kumar, Akhilesh, "A new heuristic procedure for strong relaxation of the capacitated plant location problem", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2004).
33. Jain, A., "New formulations and relaxations of the single stage capacitated warehouse location problem", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2004).
34. Chaudhary, R., "ERP implementation and its influence on a few parameters of organization structure and manager's job : An exploratory study", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2005).

35. Namdeo, S., "Developing new strong constraints for the two stage warehouse location problem – With and without restrictions on the arc flow", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2005).
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39. Chirag Jain, "A few dispatching policies for a two echelon distribution system", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2007).
40. Amit K Gupta, "Modelling Operations of Fire Stations in a Few Districts of Uttar Pradesh, INDIA", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2009).
41. Sonal Dubey, "Solving single stage uncapacitated warehouse location problem by a combination of OR based heuristics and genetic algorithm: An empirical investigation", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2010).
42. G Chandra Mouli, "Empirical investigation of strong, weak and hybrid formulations of the single stage capacitated warehouse location problem", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2010).
43. Sushil Pandey, "Lagrangian relaxation based approach for the single stage capacitated warehouse location problem", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2011).
44. Suraj M Patil, "Best practices in design of ERP packages: Identifying contexts of success and failure", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2011).
45. Arvind Shukla, "Comparative performance of LIFO/FIFO and CRR scheduling rule in the context of Indian Railways: Results of a 'C' Simulation Program", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2012).

46. Vimal Kumar, "Equal distribution of shortages in supply chain of food corporation of India: Using Lagrangian Relaxation Methodology", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2012).
47. Agnivesh, "Relaxing Strong Constraints in a Combined Formulation of Simple Plant Location Problem: Applying Lagrangian Relaxation Methodology", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2012).
48. Ananya Dubey, "Lagrangian Relaxation Methodology for Twin Objective Facility Layout Problem", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2012).
49. Sandeep Mokashi, "Solving Portfolio Selection Problem for each of the Twin Objectives: Max. Mean and Min. variance", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2012).
50. Sandeep Singh Rajput, "Developing Proprietary or Open Source Technology: Learnings From Five Case Studies", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2013).
51. Adwait Parulekar, "Lagrangian Procedure with Relaxation of the Flow Balance Constraints for the Single Stage Un-capacitated Warehouse Location Problem: Few Theoretical and Empirical Results", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2013).
52. Tanmay Kulshrestha, "Role of values and strategy in TQM Implementation", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2014).
53. Parag Tyagi, "Developing strong and hybrid formulations for the single stage, single period multi commodity warehouse location problem: Theoretical framework and empirical investigation", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2015).
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**GUIDED SPECIAL STUDIES PROJECTS FOR MBA II nd YEAR STUDENTS
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Sponsored Projects

“Food Distribution in the Indian Context”, Project funded by the Department of Science and Technology, Ministry of Science and Technology, Govt of India, under the “Young Scientist” scheme, Amount Rs. 90,000. Principal Investigator: Dr. R.R.K. Sharma, Nov, 1991 to Nov, 1993. (Co-Investigator – None)

“Developing Optimal Network of Freight Terminals and Designing Physical Layout of Terminals for Indian Railways”, Project funded by 3-I network of INDIA, Amount Rs. 6,90,000. Principle Investigator : Dr. R.R.K. Sharma, (Co-Investigator – Dr. BR Marwah, Dr. PK Kalra and Dr. SG Dhande), March 2001 – Feb 2002.

“Improving Operations of UP Fire Service”, A Project Funded by Shri Rajneesh Chopra (Lucknow) in loving memory of his father Late Shri SL Chopra; Principle Investigator: Prof. R.R.K. Sharma Dept. of IME, IIT, Kanpur; Completed 2009.

Software Packages Developed

Ad-Selection for T.V. Commercials

Given a budget for a particular advertising campaign, this package produces a plan that maximizes total number of exposures to the target population. The package is being used at the Mudra Communication Pvt. Ltd., Ahmedabad (1987).

Programming language used : Pascal.
Code Length : 10,000 lines

Project Management

Given activities and its immediate preceding activities, this package constructs a network using arrow on node notation. (1986).

Programming language used : Pascal.
Code Length : 2,500 lines

Distribution Management

Given various cost parameters of a distribution system, this package produces a plan that minimizes the total transportation and warehousing costs. (1988).

This distribution package was developed on VAX-750 at IIM, Ahmedabad.

Programming language used : Pascal.
Code Length : 20,000 lines

Distribution Management

Given various cost parameters of a single stage warehouse location problem (for the uncapacitated case) it uses lagrangian relaxation based specialized technique for

embedded in the branch and bound procedure for producing the optimal location-allocation plan. (1992).

Programming language used : Pascal.
Code Length : 8,500 lines.

MRP Simulation Package

This program reads the essential inputs of a material requirement planning system and allows the user to design his own lot sizing and sequencing heuristics. It carries out simulation for a specified period of time and prints out vital statistics such as theoretical inventory carrying cost, actual inventory carrying cost, set up cost, machine utilization, aggregate lateness, and units lateness. The program is self documented through the use of superior data structures and most appropriate variable names. (1993).

Programming language used : Pascal.
Code Length : 3,000 lines.

Goods Traffic Simulation Package for Indian Railways

This program takes into account various parameters of Indian railway system such as number of stations, connectivity between stations, number of paths available for goods trains between any pair of stations, number and type of goods trains available, yard capacity at a station, given traffic movement profile; and computes the congestion levels, delays in the system and the empty haulage costs of the goods rakes. (2002).

Programming Language Used : C
Code Length : 3500 lines

A GA Based Procedure for Portfolio Selection Problem (2007)

Programming Language Used : C
Code Length : 1000 lines

New GA Based Procedure for the Facilities Layout Problem (2010)

Programming Language Used : C
Code Length : 4000 lines

References

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2. Prof. Nicholas S Law, Director General, International Biographical Center, Cambridge, St Thomas Place, Ely, CB7, 4GG, ENGLAND; e-mail: info@ibassociation.com Ph: +44 (0) 53 646600.
3. Prof. JL Saha, (Ex Director IIM Ahmedabad): Sabarmati, CG 204 Salt lake City Sector II, KOLKATA; e-mail: saha.jahar@gmail.com.