

## BIO-DATA

### SHORT CV APPEARS IN THE END

Name : R. Raghavendra Kumar Sharma

Date of Birth : 12 January 1959

Current Address : Qr. No. 643, Type- VI  
Indian Institute of Technology,  
Kanpur 208 016, INDIA

E-Mail : [rrks@iitk.ac.in](mailto:rrks@iitk.ac.in);  
Alternate E-mail : [rrkiitk@gmail.com](mailto:rrkiitk@gmail.com);  
Mob. : 9935603408

Permanent Address : C-708, Ratan Planet, Naramau, Banger  
Kanpur Nagar, UP, 209217

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  
(5) Health Care Management (side interest)

Marital Status : Married to Dr. Sheela Raghavendra Sharma,  
10 Sept 1989.  
M.B.B.S., M.D. (Obstetrics and Gynecology)

Children : (1) R. Shriniwas Sharma (DoB : 26 Jan 1992)  
BE (Mfg. Engg.) BITS Pilani; 2010-2014  
MS (CSE) TU/e The Netherlands; (2017-2019)  
(2) R. Anjaneya Sharma (DoB : 05 May 1995)  
BTech (EEE) VIT Vellore; 2014-2018  
MS (EEE), USC LA USA (2018-2020)

**Number of publications (peer reviewed: 409 (in scopus: 128 & 31 in ABDC C category as on 2013) (including 141 articles in 5 peer reviewed books)/under preparation-review: 40 / working papers (not referred): 781) are 1230.**

## **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 (experienced HR in action). 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 – 31 Jan 2024), (till 2012: 97 publications); Department of Industrial and Management Engineering. As on date number of publications (peer reviewed: **409 (including 141 articles in 5 peer reviewed books)**)/under preparation-review: **40** / working papers (not referred): **781**) are **1230**.

Sanjay Mittal Chair Professor, IIT KANPUR; (till 2015: 124 publications) Dept of IME (15 Sept 2015 - 14 Sept 2018). As on Dec 2018 number of publications (published: 198 under review/Book Chapters: 141) are 339.

**Retired Professor, DoMS, IIT Kanpur 208016 India: 31 Jan 2024**

**Leave Balance as on 30 Jan 2024 (As Per Pingala): EL 186.5; HPL: 573;**

**Re-employed by IIT Kanpur DoMS as Professor Till 30 June 2024.**

# **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<sup>th</sup> 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; at least 13 times (looked after MBA/MTECH/PhD admissions (when one did not have a separate co-ordinator for each of them)

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

**Head, Department of Industrial and Management Engineering, IIT Kanpur (05-07).  
Head, Department of Industrial and Management Engineering, IIT Kanpur (16-17).**

**Coordinator, course curriculum committee, M.B.A. program, IME department, I.I.T., Kanpur; Almost single handedly designed all the courses of MBA.**

Total full time teaching experience 35 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 two 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, Cogent Engineering, International J of Production Research, International J of Advanced Manufacturing Technology and many other journals of repute.

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; RGIPT Rae Bareli, IIT ISM Dhanbad, IIT Guwahati (Management), IIT Roorkee (Applied Maths and Scientific Computing) and IIT Madras (DoMS).

**Member Editorial Board: American Journal of Operations Research; Mar 20, 2011 – Mar 19, 2012. Member Editorial Board: American journal of Industrial and Business Management (of Scientific Research Publishing); and Member Editorial Board: J of Business and Econometrics Studies; See:**

<https://www.scirp.org/journal/detailedInfoofeditorialboard?personid=11605>

<https://oaskpublishers.com/journal-of-business-and-econometrics-studies-editorial-board-members>

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.

Chief Guest (Invited), Entrepreneurship Development And Technology innovation, Mar 1, 2019; at HBTU Kanpur India.

Key Note Speaker (Invited: Did Not Attend), International Conference On Industrial Engineering 2019; At Dubai (United Arab Emirates); Topic: Industrial Engineering to e-Industrial Engineering: Journey From 1901 to 2019.

Joined as Member Technical Committee of ICIEA 2024 Hiroshima Japan. Look up the link: <https://www.iciea.org/committees.html>

## AWARDS AND RECOGNITIONS (SELECTED)

1. **Prof. R.R.K. Sharma**, Invited to Join the Editorial Board of AIMS International Journal of Management, <http://aims-international.org/AIMSijm/EditorialBoard.asp>;
2. **Prof. RRK Sharma, Judged as OUTSTANDING EDITOR: AIMS International Journal of Management**, at AIMS-6 conference, Dec 28-31, 2008; held at Greater Noida; <http://www.aims-international.org/files/winners2008.pdf>;
3. **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). <http://www.aims-international.org/files/Winners2009.pdf>;
4. **Prof. RRK Sharma, awarded the title of “FELLOW of AIMS INTERNATIONAL”**, at AIMS-9 conference, Jan 1-4, 2011; FLAME PUNE, India; <http://www.aims-international.org/files/Winners2011.pdf>;
5. **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. <https://icaindia.info/MMSMA.html>;
6. **Prof. RRK Sharma, recipient of the “MEMBERSHIP AWARD”** given by IABE 2015 (International Academy of Business and Economics; USA); 2015.
7. **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. <https://viraw.info/pdf/ra15report.pdf>
8. **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. <http://www.ieomsociety.org/awardsieom2016malaysia.pdf>;
9. **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. <http://www.ieomsociety.org/awardsieom2017rabat.pdf>;
10. **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.
11. Google Scholar Page [https://scholar.google.co.in/citations?hl=hi&user=FY8\\_swAAAAJ](https://scholar.google.co.in/citations?hl=hi&user=FY8_swAAAAJ)

12. **Prof. RRK Sharma, “Quarterly Franklin Membership”, Membership ID#RA87720;** Given by Editorial Board of London Journals Press (2019).
13. **Prof. RRK Sharma:** Invited by Ministry of HRD Government of INDIA to participate as an expert in NIRF (National Institutional Ranking Framework) Survey 2019, 2020, 2021, 2022 and 2023.
14. **Prof. RRK Sharma,** Invited by **QS World University Ranking,** to take part in global survey of management institutes (once in South Asia, once in India and several times for ranking global B’ Schools), 2019, 2020, 2022, 2023 and 2024.
15. **Prof. RRK Sharma,** Got IIT Kanpur Senate Commendation Letters (at least 8 times in career) for excellence in teaching.
16. **Prof. RRK Sharma, Member (Id: RF20539C) Advisory Board RESEARCHFORA** ([www.researchfora.com](http://www.researchfora.com)).  
<http://www.researchfora.com/Committee.php>;
17. **Prof. RRK Sharma, Member, Editorial Board of Cloud Computing and Data Science (CCDS),** Universal Wiser Publisher, Singapore; 09 July 2021; and **Editorial Board Member of J of Business and Econometrics Studies, OASK Publishers** Dec 2023.
18. **Prof. RRK Sharma, Distinguished Service Award, IEOM Society, USA** (Given on 18 Aug 2021) at IEOM Bangalore 2021 (Aug 16-18) conference).  
<http://www.ieomsociety.org/awards-india2021.pdf>;
19. **Prof. RRK Sharma,** recognized as Top 20 Expert Faculties in the field of Automobile, Bio-Chemical, Industrial, Environmental, Ceramic & Bio-Technology Engineering for the year 2020 by The Academic Council of uLektz. (received on 01 Dec 2021).
20. **Prof. RRK Sharma,** With 221/410 papers on Research Gate, Research Interest Score is greater than 97 percentile in the ‘Business Administration’ Category as on the date of this document.
21. **Prof. RRK Sharma,** Invited as expert to participate in THE 2023 (13 Nov 2022) and 2024 (19 Nov 2023) Academic Reputation Survey, Times Higher Education for ranking universities world-wide.

#### **AWARDS RECEIVED AFTER RETIREMENT**

22. **Prof. RRK Sharma,** Selected as Fellow of IEOM (Industrial Engineering & Operations Management) Society, USA 2024. Award to be given on 14 Feb 2024 at Dubai. <https://ieomsociety.org/ieom/fellows/>

## Publications

### Book(s) (Referred)

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) (Referred)

2. 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 07 articles that are counted only once).
3. RRK Sharma, "Advances in Information Technology/Systems and manufacturing Systems"; LAP LAMBERT Academic Publishing, Germany, (2018). A Collection of 41 papers (All Authored by Prof. RRK Sharma); (corrected version of article 29 of this book counted in Excel Book 2 as article no 73). ISBN-13: 978-613-9-87800-0; ISBN-10: 6139878004.

**THIS BOOK IS NOW AVAILABLE IN 8 DIFFERENT LANGUAGES WORLDWIDE (SINCE FEB 2020).**

4. 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: 978-613-9-89735-3
5. 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.
6. 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.

**ERRATA ON BOOKS PUBLISHED BY LAP-LAMBERT IS AVAILALE ON REQUEST.**

**Books by Prof. RRK Sharma can be seen at IIT Kanpur library at the following link:**

[https://libserv.iitk.ac.in/cgi-bin/koha/opac-search.pl?idx=au&q=r.r.k.+sharma&item\\_limit=](https://libserv.iitk.ac.in/cgi-bin/koha/opac-search.pl?idx=au&q=r.r.k.+sharma&item_limit=)

### **Book of Working Papers (not refereed)**

1. RRK Sharma, "Working Paper Series: Lecture Notes in Management Science: Vol 1", A collection of 148 working papers, (All Authored by Prof. RRK Sharma). EXCEL PUBLISHERS NEW DELHI, April 2019; p. 149. ISBN: 9-789-388-237116.
2. RRK Sharma, "Working Paper Series: Lecture Notes in Management Science: Vol 2", A collection of 295 working papers, (All Authored by Prof. RRK Sharma); EXCEL PUBLISHERS NEW DELHI, 2019. Aug 2019; p. 234. ISBN: 9-789-388-237796.
3. RRK Sharma, "Working Paper Series: Lecture Notes in Management Science: Vol 3", (150 articles are written: All Authored by Prof. RRK Sharma); FEB 2020. ISBN: 978-93-89947-08-3; Mar 2020; p. 156.
4. RRK Sharma, "Working Paper Series: Lecture Notes in Management Science: Vol 4", (It has 01 article + 4 software: All Authored by Prof. RRK Sharma); (Oct 2020); p. 192. ISBN: 9789389947212.
5. RRK Sharma, "Working Paper Series: Lecture Notes in Management Science: Vol 5", (It has 139 articles are written: All Authored by Prof. RRK Sharma); ISBN: 978-93-89947-31-1; Jan 2021.
6. RRK Sharma, "Working Paper Series: Lecture Notes in Management Science: Vol 6", (It has 048 articles are written so far: All Authored by Prof. RRK Sharma); ISBN: 978-93-91355-65-4; May 2022.

### **TOTAL WORKING PAPERS: 781**

**An Explanation.** Book of working papers are to be evaluated by a panel of experts who will have members that can review papers in Operations Research, Operations Management, Organization Behavior, HRM, Information Technology and Systems etc. This is easily possible when papers of diverse subjects are submitted to national/international conference; but here cost of getting papers published are high (with money outflow in form of registration charges for so many papers. At the rate of USD 100 registration fees per paper, for 700 papers USD 70,000 or INR 50 Lakhs are required). It is difficult to find reviewers who are simultaneously experts in such diverse fields.

An attempt is made to insure that most of these working papers make an original (it has no data or an experimental investigation on computer or otherwise) contribution to body of knowledge (through extensive literature review) and is free from plagiarism. In other papers we present relevant and brief literature review.

For definition of working paper we refer you to [https://en.wikipedia.org/wiki/Working\\_paper](https://en.wikipedia.org/wiki/Working_paper). It was given an ISBN number as working paper ID was not available. The purpose is to share these scientific working papers with all and get feedback before submitting these to peer reviewed journal(s) or international or national conference(s).



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## **PAPERS UNDER REVIEW/PREPARATION/READY/SUBMITTED (40)**

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**V5: 69, 70, 72, 73, 74, 75, 77, 78, 90**

**V6: 5, 6, 7, 36, 38,**

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**V2: 2, 44, 43, 60, 64, 86, 99, 100, 105, 112, 128, 139, 141, 208, 218, 256, 257, 258, 260, 261, 264, 267, 274, 290 and 292. (\* 25 papers \*)**

**V3: 14. (\* 1 paper \*)**

**V 5: 23, 71 and 112. (\* 3 papers \*)**

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RRK Sharma, Omprakash Gupta, Vinay Singh and KK Lai, 'Two New Models On Single Floor Plant Layout Problem', submitted to CPIE - 2023 (7th Conference on Industrial and Production Engineering): No: 7545. Under Review for Inclusion in Proceedings;

RRK Sharma, Vimal Kr, D Singh and Niraj V., "Personality Traits of Leaders Of Firms Engaged in Mass Customization", **Submitted To IEEM 2024 Conference.**

RRK Sharma, Vinay Singh and KK Lai, "Relating Taguchi Methods (TM) and Internet of Things (IoT) in Additive Manufacturing (AM) To Strategy of the Firm: Few Propositions", **Submitted To IEEM 2024 Conference.**

RRK Sharma, Vinay Singh and KK Lai, "Two Formulations for Minimizing Weight-Distance Objective in Single Vehicle Routing Problem with Quadratic, Cubic Objective Function and its Linearization", **Submitted To IEEM 2024 Conference.**

Priyank Sinha, R.R.K. Sharma, Satvik C Shukla and Amol Garg, "Two Formulations of Resilient Plant Location-Distribution Problem", **Submitted To IEEM 2024 Conference.**

RRK Sharma Priyank Sinha and Vinay Singh 'Relating Big Data Analytics (BDA) to Strategy Of The Firm: Few Propositions', **Submitted To IEEM 2024 conference.**

RRK Sharma and Somnath Bhattacharya, "Relating institutional work to leader personality, agency and leadership types: A conceptual framework", under preparation. **Submitted To IEEM 2024 conference.**

Shivangi Rai and RRK Sharma: 'Relating Strategy of Organization To Newer Technologies Of Industry 5.0', **Submitted To IEEM 2024 conference.**

RRK Sharma and Anjali Sharma, 'Values and personality types of market mavens and opinion leaders in the e-world', **Ready for ICMIS 2024 Conference.**

RRK Sharma, Syed Moize Ali and Vinay Singh, 'A New Formulation of Multi Item Multi Period Capacitated Lot Sizing Problem With Setup Carryover, Inventory and Backorders (MIMPCLSPWSC)', **Ready for ICMIS 2024 Conference.**

RRK Sharma and Vinay Singh, 'Reducing Capacitated Lot Sizing Problem (CLSP) With No Shortages To a Pure 0-1 Integer Linear Program OR To a Linear Program Only In Production Variables: Outline Of A New Heuristic Procedure', **Ready for IEOM 2024-25 Conference.**

**DURING 2019-2022, a total of 781 working papers were written. Out of these approximately 580 are yet to given finished form (either as a journal paper or as in international conference proceeding or book chapter in a referred book with an ISBN number). This I plan to do during rest of my life.**



### Few Highlights:

**Professor RRK Sharma has generated 70+ theorems / conjectures / and interesting results in mathematical/theoretical papers. (KD Sharma 8; Murali 3; Priyanka 12; Pritee 27; PERT Network 8; and Mayank 12).**

Prof. RRK Sharma has following achievements (as of date of this document):

(1): papers in A journal quantitative area (EJOR: IF 6.8; cite score: 10+; total of 4 papers) and also has paper in A journal in qualitative area (IJPE: IF 11.0+; cite score: 14+; total of 1 paper)

(2): 26 papers (including quantitative and qualitative areas) in IEEE/IEEM conference proceeding; IF: 14.0+

(3): 13 papers in American J of Operations Research that has cite score of 8.42;

(4): 3 papers in Global Business and Management Research (cite score: 11.02).

(5): 1 paper in IJPR (IF: 6.56; cite score: 9.0+).

(6): 64 papers in IEOM Conference Proceedings (Appear In Scopus).

**(7): 42 papers in journals of IABE USA (max acceptance rate here is 23%). Out of these 31 articles (in J of Academy of Business and Economics; Review of Business Research; International J of Strategic Management; European J of Management; International J of Business Research and International J of Business Strategy) were in OLD ABDC (C category) journal list (in 2013) available at:**

**<https://www.google.com/search?q=abdc+2013+quality+journal+list+pdf&oq=&ags=chrome.0.35i39i362i8.1350j0j15&sourceid=chrome&ie=UTF-8>**

## Published Research Papers Area wise

	In Book Chapters, Journal Articles & Conf. Proceedings	In 5 Research Books LAP LAMBERT (4) & Vitasta (1)
Operations Research	51	0
Operations Management	54	27
Information Systems	31	43
HR & IR	9	8
Organization Behavior	33	34
Strategy	34	9
Technology Strategy	14	14
Marketing	19	3
Financial Modelling	3	1
Supply Chain Management	20	2
<b>TOTAL</b>	<b>268</b>	<b>141</b>

Referred articles: **409** (268 (BC: 22; J: 129; CP: 117) +141 (articles in 5 peer reviewed books)).

Not refereed book chapters: **781**.

Articles Under Review / Preparation: **40**.

**Total Output as on Date: 1230.**

**In all publications (barring 10 of them) listed above, Prof. RRK Sharma is either First or Second Author. Wherever Prof. RRK Sharma is second author, first author is his student whose work he has supervised (PDF, PHD, MTECH, MBA or UG).**

## 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.

**WORK DONE From 1 Jan 2017 To 31 Jan 2024: Referred 01 Book Chapters; 40 Journal Articles; 82 International/National Conference Proceedings and 134 articles in referred Research Monographs: TOTAL 257 (scopus: 78) & PLUS Total No of Not Referred (working papers) Papers: 781.**

**Publications as on 31 Dec 2016: 22 Book Chapters; 89 Journal papers; 34 International/National Conference Proceedings and 7 articles in referred Research Monographs: 152.**

**Publications as on 31 Jan 2024 (retirement date): 22 Book Chapters; 129 Journal Articles; 117 International/National Conference Proceedings and 141 articles in referred Research Monographs: 409 (scopus: 128; 31 in ABDC C Category as of 2013).**

### **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).
6. Saxena, D., “Organization structure rigidity and its effect on Managerial cognition: An integrated view”, M.Tech. thesis at the Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur (Completed 1994).
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 (Completed 1997).

- 1997).
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. Modi, P., "New formulations and relaxations of the single stage uncapacitated warehouse location problem", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2004).
31. 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).
32. 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).
33. 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).
34. 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).

35. Pankaj K., "A new GA based procedure for the portfolio selection problem", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2006).
36. Joshi, A.B., "New heuristics for solving multiperiod assignment problem", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2007).
37. Inamdar, B.R., "Forecasting for nanotechnology : A new approach based on recent research and developments", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2007).
38. 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).
39. 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).
40. Sonal Dubey, "Solving single stage un capacitated 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).
41. 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).
42. 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).
43. 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).
44. 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).
45. 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).

46. 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).
47. 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).
48. 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).
49. 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).
50. 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).
51. Tanmay Kulshrestha, “Role of values and strategy in TQM Implementation”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2014).
52. 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).
53. Atanu Mondal, “Key Differences in MAS Implementation (Multi Agent Systems) in Defender and Prospector Type of Organizations”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2016).
54. Ankita Malviya, “Applying Modified Benders Decomposition to SSCWLP (Single Stage Capacitated Warehouse Location Problem) For the Multi Commodity and Multi Period Case: Investigating Role of Strong and Weak Formulations with Feasibility Constraints and An Additional Cut”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2016).
55. Nilanjan Das Khan, “A new formulation for single item capacitated lot sizing problem with shortage and inventory”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2017).



56. Parvathy, T., "Preparing good solution for single item capacitated lot sizing problem with shortage and inventory"; Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2018).
57. Mananjay K Verma, "New formulations for multi item capacitated lot sizing problem"; Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2018).
58. Himanshu, R, "Adding valid inequalities to CPLP"; Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2019).
59. Urvashi, Sharma," Adding valid inequalities to SPLP", Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2019).
60. Priyank Dubey, 'Efficacy of Feasibility Constraints in the Context of SSCWLP (Single Stage Capacitated Warehouse Location Problem)', Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2020).
61. Mohd. Amir, 'Efficacy of New Formulation of Multi-Item, Multi-Period Lot Sizing Problem with Setup, Production, Backorder and Inventory Costs', Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2020).
62. Ravi Gunjan, 'HR Analytics for Employee Turnover', Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2021).
63. Shivam Sharma, 'RELATING CYBER SECURITY BUDGET TO THE STRATEGY OF FIRM', Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2021).
64. SR Verma, 'Forward and reverse supply chain in single stage plant location problem: A several new formulations and empirical investigation for their efficacies', Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2022).
65. Abhay Raj Singh, 'One strong and two weak formulations of SPLP and resulting several formulations and their empirical investigation for establishing their efficacies', Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2022).
66. Shivam Saini, 'A new formulation of multi-floor simple plant layout problem', Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed May 2023).
67. Pushkar Awasthi, 'Latest model of single stage plant-warehouse location problem', Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed May 2023).

68. Rohit Pidurkar, 'comparing efficacy of new model of QAP (Quadratic Assignment Problem) with known linearizations of QAP', Department of Management Studies, Indian Institute of Technology, Kanpur 208016 (work in progress).
69. Himanshu Gaur, 'A New Approach to PSP (Portfolio Selection Problem)', Department of Management Studies, Indian Institute of Technology, Kanpur 208016 (work in progress).

**Quantitative M Tech Theses: 47**

**Qualitative M Tech Theses: 22**

### Ph. D. Theses Supervised

1. Singh, S.P., “Solving the Static and Dynamic Plant Layout Problems: Developing a few GA and SA based heuristics”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2007). (10 paper: 4 papers with mark of quality). (Now at DoMS IIT Delhi).
2. Verma, Priyanka, “New Relaxations of the Multistage Warehouse Location Problem”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2010). (8 papers: 4 papers with mark of quality). (Now at NITIE Mumbai)
3. Chatterjee, Devjani, “Strategy, Structure and Management Control Systems for Prospectors, Defenders and Innovators”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2011). (4 papers + 1 book: 1 paper with mark of quality). (Now at IIM Kashipur).
4. Pandey, Shardindu, “OD interventions for Defenders, Prospectors and Innovators”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2010). (9 papers: 3 papers with mark of quality). (Now at IIFM Bhopal).
5. Nair, Uma, “Relating organizational strategy and MIS implementation (types and processes) structure, culture and culture clash”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed MAR 2014). (4 papers: 3 papers with mark of quality). (Chitrakoot Institute of Management, Patna).
6. Verma, Mayank, “Capacitated lot sizing with back orders in multilevel situations”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2012). (11 papers: 5 papers with mark of quality). (Now at BAARC Mumbai).
7. Vinay Singh, “Relating strategy, structure and systems (including MIS) in a BSC approach & relating strategy and critical success factors for MIS & relating environmental uncertainty and its influence on political games and MIS implementation”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2012). (6 papers +1 under review: 7 papers with mark of quality). (Now at IIITM Gwalior).
8. Amit Kumar Gupta, “Solving two versions of JRP and the inventory optimization problem of Food Corporation of INDIA”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2014). (2 papers: (includes 1 in IEEM-explore): 2 papers with mark of quality). (Now at MDI Gurgaon / IIM Patna).
9. Pritee Agarwal, “Solving SSCWLP by Benders Decomposition and Branch and Bound Methods; and solving MID CPLP by Different Lagrangian Relaxation

Procedures”, Department of Mathematics and Statistics, Indian Institute of Technology, Kanpur 208016 (Completed Nov; 2014). (5 papers: 2 papers with mark of quality). (Not Known)

10. Saba Iqbal, “Exploring relationship between environment, retail strategies and retail decisions”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (Completed Feb; 2015). (2 papers with mark of quality). (Not Known)
11. Niraj Vishwakarma, “Relating a few organizational variables to IoT architectures; RFID and BPR implementation: A theoretical framework and its empirical validation”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed; 3 OCT 2016). (10 papers + 1 under review: 9 papers with mark of quality). (Now at IIIT Lucknow).
12. Deepa Mishra, “Relating Bridging and Buffering in Supply Chains and Culture and Strategy to Outsourcing in Supply Chains”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed; 3 OCT 2016). (6 papers + 1 working paper: 3 papers with mark of quality). (Business School in France).
13. Ajay Jha, “Open and Proprietary standards, Performance Metrics and Flexibility and Postponement in Supply chain management”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed; 12 Mar 2019). (12 papers: 11 papers with mark of quality). (Jaipuria Institute of Management Lucknow).
14. Vimal Kumar, “Role of Leadership; Culture and values in TQM Implementation”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed; 25 MAY 2017). (18 papers + 1 paper: 12 papers with mark of quality). (Chaoyang University of Science and Technology, Taiwan).
15. Pratima Verma, “Role of Leadership; Culture in Horizontal Strategy”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed NOV 2017). (11 papers + 2 working papers: 6 papers with mark of quality). (IIM Kozikode)
16. Surajit Saha, “Matching Personality and Projects; And Important Differences in Architectural and Modular Innovation”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 12 APR 2018). (4 papers + 2 under review + 1 working paper: 2 papers with mark of quality). (IBS Hyderabad).
17. Ali, “Some variants of Wagner-Whitin Lot Sizing Problems”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (work in progress). (2 journal + 1 book chapter + 1 working paper).

18. Tekle Hai Manot, “e-business in Supply chains”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed, Dec 2018). (5 papers + 3 working papers: 3 papers with mark of quality). Faculty at Ethiopia).
19. Tesfaye, T., “e-integration in supply chains”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 2018 Oct). (6 papers: 4 papers with mark of quality). (Faculty at Ethiopia).
20. Vinayak Drave, “Effect of e-commerce on On Line Retail; Logistics and Enablers for different types of On-Line retail format”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 05 Jun 2020; 13 papers + 2 under review + 1 working paper: 11 papers with mark of quality). (OP Jindal Business School Delhi).
21. Dhan Singh, “Formulating and Evaluating SC strategy; SC for mass customized SC”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed Aug 2022). (3 papers: 2 papers with mark of quality). (IRS Officer Gujrat).
22. Priyank Sinha, “Getting good primal and dual solutions to min-cost-flow problem”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 28 Aug 2019). (6 papers + 2 working paper: 3 papers with mark of quality). (IIT Guwahati).
23. Somen Dey, “Flexibility Issues in Manufacturing and Supply Chains”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed: 29 Apr 2019). (9 papers + 2 under review + 4 working papers: 6 papers with mark of quality). (MNNIT Allahabad).
24. Piya Ghosh, “Facility Location-Distribution Problems with the consideration of Carbon Footprint”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (work in progress). (3 book chapters + 4 articles (J + BC): 3 papers with mark of quality).
25. Sonal Gupta, “HR Analytics: Role of Strategy”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (completed 15 Dec 2023). (4 book chapters + 1 working paper: 3 papers with mark of quality). (Completed Dec 2023).
26. Anjali Sharma, “Consumer Brand Switching”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (Completed, June 2022). (5 papers + 2 working papers: 5 papers with mark of quality).
27. Gagan D Kaur, “Role of national culture, organizational culture and strategy and personality in expected compensation: Empirical investigation of software

companies in India”, IME IIT Kanpur 208016: Full time PhD student of Lucknow University (work in progress). (1 paper + 4 working papers).

28. Shivangi Rai, “Relatig OD Interventions to strategy of the firms”, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 (work in progress: SoTA Given). (1 paper with mark of quality).

PhD students awarded degree by IIT Kanpur: 23; submitted 1; work in progress: 3 at IIT Kanpur and 1 at Lucknow Univeristy

**Quantitative PhD Theses: 8**

**Qualitative PhD Theses: 20**

**GUIDED SPECIAL STUDIES PROJECTS FOR MBA II nd YEAR STUDENTS OF IME, IIT KANPUR 208016, INDIA: 129 (till date)**

### **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. 43,000. 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. 4,00,000. Principle Investigator : Dr. RRK 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. RRK Sharma Dept. of IME, IIT, Kanpur; Completed 2009. (Rs. 15,000).

## Software Packages Developed

### (a): 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

### (b): 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

### (c): 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

### (d): 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.

### (e): 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.

(f): 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

(g): A GA Based Procedure for Portfolio Selection Problem (2007)

Programming Language Used : C  
Code Length : 1000 lines

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

Programming Language Used : C  
Code Length : 4000 lines

(i): Several codes for plant/warehouse location-allocation problem using Bender's decomposition (2012)

Software Jointly Developed with Dr. Vinay Singh & Dr. Pritee Agarwal (my PhD students).

Programming Language Used: GAMS.

(j): Software for Bender's Decomposition in a Hybrid Formulation of the Problem SSCWLP

Programming Language Used: GAMS.

(k): Software for Dual Based Ascent Procedure (Due to Erlenkotter) for problem SPLP under strong formulation.

Programming Language used is PASCAL.



## References

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Research Interest Score at ResearchGate

<https://www.researchgate.net/profile/R-Sharma-8/stats>

**Brief CV of Dr. R.R.K. Sharma, IIT KANPUR**  
**Retired Professor, (31 Jan 2024)**  
**Department of Management Sciences**

**List of Achievements:**

Dr Sharma has had 38 years of career to date. Started as graduate engineer trainee with TELCO (PUNE) (now TATA MOTORS INDIA) during 1980-82, and later went on to do Ph.D. in management at I.I.M., Ahmedabad, INDIA. After Ph. D. in management, he worked with TVS Suzuki (for 9 months) as executive assistant to GM (marketing). Now he has 35 years of teaching and research experience at the Department of Management Sciences (earlier Dept. of Industrial and Management Engineering), I.I.T., Kanpur, 208016 INDIA. He has taught over **22** different courses in management at IIT Kanpur INDIA (to B. Tech., M. Tech. and M.B.A. students) and is well versed with all the facets of management and has unique ability to integrate different areas of the subject. To date he has written 1230 papers (**peer reviewed (409: in scopus: 128 & 31 in ABDC C category as on 2013)** / under review or preparation (40) / working papers 781 (not referred) and 12 BOOKS are included in this (6 are referred and 6 books of working papers (not referred)). He has published in almost all areas of management. He has developed over 10 software products. **Till date he has guided 67 (graduated) M TECH (additional 2 in progress) and 24 (graduated) PhD (additional 4 in progress) theses at IIT Kanpur.** He has been Sanjay Mittal Chair Professor at IIT KANPUR (15.09.2015 to 14.09.2018); and has been HAG scale professor at IIT Kanpur (01 Aug 2012 to 31 Jan 2024). One of his research monograph is now available in 8 different languages worldwide. He has retired on 31 Jan 2024 from DoMS IIT Kanpur 208016 India.

Dr. Sharma has won several international awards: (1) Elected **“Fellow of AIMS International”** in 2012. (2) Elected to receive the Dr Manubhai M Shah Memorial Award 2013 (instituted by the Indian Commerce Association): it carried a **Cash Prize of Rs. 1 Lakh**, trophy and a certificate of excellence. (3) In 2015, received the **“Membership Award”** given by IABE USA (International Academy of Business and Economics). (4) Elected as **“Distinguished Scientist”**, Venus International Foundation Research Awards 2015 (VIFRA 2015) at the CENTRE FOR ADVANCED RESEARCH AND DESIGN; Chennai: Dec 19; 2015. (5) In 2016, received the **“Distinguished Educator Award”**, selected by IEOM (Industrial Engineering and Operations Management) Society, USA; given at Kuala Lumpur on MAR 09, 2016. (6) In 2018, career 360 recognized him as one of the top ten knowledge producer in India. (7) Invited in 2019, 2020, 2021, 2022 and 2023 by the MHRD Govt. of India to participate in **“NIRF Rankings Survey”** for management schools in India. (8) Invited in 2019, 2020, 2022, 2023 and 2024 to participate in the **“QS Ranking Exercise”** for management schools in Asia. (8) Elected to receive the **Distinguished Service Award** of the IEOM Society USA. (9) Invited as an expert to participate in THE 2023 (13 Nov 2022) and 2024 (19 Nov 2023) Academic Reputation Survey, **“Times Higher Education For Ranking Universities World-Wide”**.

Dr. R.R.K. Sharma was selected as the **“Fellow of IEOM (Industrial Engineering & Operations Management) Society, USA 2024”**.