

## Harshal Lowalekar

(Updated on 14 July 2021)

### EMPLOYMENT HISTORY

<b>Professor</b> Operations Management & Quantitative Techniques Area Indian Institute of Management Indore Indore, India	June 2021- Present
<b>Associate Professor</b> Operations Management & Quantitative Techniques Area Indian Institute of Management Indore Indore, India	Nov 2016- June 2021
<b>Assistant Professor</b> Operations Management & Quantitative Techniques Area Indian Institute of Management Indore Indore, India	May 2011- Nov 2016
<b>Visiting Assistant Professor</b> Operations Management & Quantitative Techniques Area Indian Institute of Management Indore Indore, India	May 2010-May 2011

### EDUCATION

<b>Fulbright-Nehru Postdoctoral Fellow</b> W.P. Carey School of Business Arizona State University, Tempe, AZ, USA Project Title: <i>Application of Information Systems in Mitigating the Regional Level Supply-Demand Gap of Blood Products</i> Advisors: Dr. Ajay Vinze and Dr. Raghu T. Santanam	Aug 2013-Aug 2014
<b>Fellow Programme in Management</b> (equivalent to Ph.D.) Concentration: Production and Quantitative Methods Indian Institute of Management Ahmedabad, India Dissertation Title: <i>Integrated Model for Blood Bank Operations</i> Advisors: Dr. N. Ravichandran, Dr. Devanath Tirupati and Dr. V. Venkata Rao	Jun 2004-Apr 2010
<b>Bachelor of Engineering (B.E.)</b>	Jul 2000-Apr 2004

Concentration: Mechanical Engineering  
Rajiv Gandhi Proudhyogiki Vishwavidyalaya  
Bhopal, India

### TEACHING ACTIVITIES

- Visiting Faculty, Indian Institute of Management Calcutta (2018 to Present)
- Visiting Faculty, Indian Institute of Management Sambalpur (2019 to Present)
- Visiting Faculty, Shiv Nadar University (2017)
- Visiting Faculty, MISB Bocconi (2015-2016)
- Visiting Faculty, Indian Institute of Management Udaipur (2013)

### RESEARCH AND TEACHING INTERESTS

- Theory of Constraints
- Systems Thinking
- Change Management
- Perishable Items Inventory Management
- Operations Management
- Simulation and Modeling
- Stochastic Processes

### PEER REVIEWED PUBLICATIONS

1. Banerjee, D., & Lowalekar, H. (2021), Communicating for change: a systems thinking approach, **Journal of Organizational Change Management** (Accepted on 30 April 2021) [ABDC classification: B]
2. Lowalekar, H., & Ravichandran, N. (2019). Managing operating performance at an ophthalmology clinic. **British Journal of Healthcare Management**, 25(12), 1-13. [ABDC classification: C]
3. Lowalekar, H., & Basu, S. (2019). Theory of constraints based mafia offer for supply chains of deteriorating products. **International Journal of Production Research**, 1-29 (Published online: 20 Aug 2019). [ABDC classification: A]
4. Modi, K., Lowalekar, H., & Bhatta, N. M. K. (2019). Revolutionizing supply chain management the theory of constraints way: a case study. **International Journal of Production Research**, 57(11), 3335-3361. [ABDC classification: A]

5. Lowalekar, H., & Ravi, R. R. (2017). Revolutionizing blood bank inventory management using the TOC thinking process: An Indian case study. **International Journal of Production Economics**, 186, 89-122. [ABDC classification: A]
6. Lowalekar, H., Nilakantan, R., & Ravichandran, N. (2016). Analysis of an Order-up-to-level Policy for Perishables with Random Issuing. **Journal of the Operational Research Society**, 67(3), 483-505. [ABDC classification: A]
7. Lowalekar, H., & Ravichandran, N. (2015). A combined age-and-stock-based policy for ordering blood units in hospital blood banks. **International Transactions in Operational Research**. Published Online [ABDC classification: B]
8. Lowalekar, H., & Ravichandran, N. (2014). Blood bank inventory management in India. **Opsearch**, 51(3), 376-399. [ABDC classification: C]
9. Lowalekar, H., & Ravichandran, N. (2011). A model for blood components processing. **Transfusion**, 51(7pt2), 1624-1634. [SCImago Rank: Q1, Impact Factor: 3.111]
10. Lowalekar, H., & Ravichandran, N. (2010). Model for blood collections management. **Transfusion**, 50(12pt2), 2778-2784. [SCImago Rank: Q1, Impact Factor: 3.111]

#### MANUSCRIPTS UNDER REVIEW

1. Kuruvilla, S. J., & Lowalekar, H., Resolving Conflicting Paradigms in Vertically Integrated Textile Firms: A TOC Case Study, under review in **Production Planning and Control** (submitted on 12 July 2021)

#### MANUSCRIPTS UNDER PREPARATION

1. Suchdeo, M., Lowalekar, H., & Ravi, R.R. Application of theory of constraints (TOC) thinking processes in catering services: A case study. Targeted to **International Journal of Production Research**
2. Lowalekar, H., Raghu, T.S. & Vinze, A. Effects of artificial agents based ordering on the supply chain performance of perishable items. Targeted to **Manufacturing and Service Operations Management**.
3. Lowalekar, H., & Basu, S. Markovian analysis of an order-up-to-level policy for perishables under stochastic supply. Targeted to **International Journal of Production Economics**.

## PUBLISHED CASES

1. Lowalekar, H., Raghu, T.S. & Vinze, A. (2016). Model Blood Bank, Indore: Supply Chain Management of Blood Products. **Ivey Publishing** [Registration Number 9B16D018].
2. Lowalekar, H., & Ravichandran, N. (2012). Managing the Outpatient Department Waiting Time at Rajas Eye Hospital, **Indore Management Journal**, 4(1), 36-46.

## PUBLISHED TECHINICAL NOTES

1. Lowalekar, H. (2012). Spreadsheet Model for Student Evaluation and Grading, **Indore Management Journal**, 3(4), 67-74.

## SIMULATION GAMES

1. Lowalekar, H., Raghu, T.S., & Vinze, A. (2014). Blood Bank Game, **Arizona State University**, 2014. (link: [bbgame.wpcarey.asu.edu](http://bbgame.wpcarey.asu.edu))
2. Lowalekar, H (2020). DDMRP Game MS-Excel Version (unregistered).
3. Lowalekar, H (2020). Bread Game MS-Excel Version (unregistered).

## PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

1. Lowalekar, H. (2014). Spreadsheet Modelling: A Technical Note, **Proceedings of the Advanced Workshop and Tutorial on Operations Research**, ORSI Ahmedabad, 116-122.
2. Lowalekar, H., & Ravichandran, N. (2013). A Simulation Based Model for Optimal Alignment of New Product (Scheme) to Market Segment: The Case of Indian Mobile Telephony, **Fourth National Conference on Management Science and Practice (MSP 2009)**, 23-34.
3. Lowalekar, H. (2013). Integrated Model for Blood Bank Operations, **Fourth National Conference on Management Science and Practice (MSP 2009)**, 1-8.

## EDITED BOOKS

1. Nachiappan, S., Sambandam, N., & Lowalekar, H. (2012). Indore Management Journal: Special issue on Selected Reviewed Papers from ORSI (2010) and SOM (2010) Conferences, 3(2).

## BOOK CHAPTERS

1. Lowalekar, H., & Ravichandran, N. (2015). Inventory management in blood banks. **Case Studies in Operations Research** (pp. 431-464). Springer New York. (Editor: Katta G. Murty).

## CONFERENCE PRESENTATIONS

1. Lowalekar, H. (2019). Performance Measurement in Supply Chains, EURO 2019, Dublin, Ireland (23 - 26 June 2019)
2. Lowalekar, H. (2018). Theory Of Constraints Replenishment Solution For Managing Distribution Of Perishable Items, **INFORMS 2018**, Phoenix AZ, USA (4-7 Nov 2018)
3. Lowalekar, H. (2017). Markovian analysis of an order-up-to-level policy for deteriorating inventory with stochastic review intervals, **OR59 Conference**, Loughborough University (12-14 Sep 2017).
4. Lowalekar, H., Raghu, T.S., & Vinze, A. (2016). Effects Of Artificial Agents Based Ordering On The Supply Chain Of Perishables, **INFORMS 2016**, Nashville, Tennessee (12-16 Nov 2016).
5. Lowalekar, H. (2016). A Markovian Model For Blood Components Production System, **INFORMS 2016**, Nashville, Tennessee (12-16 Nov 2016).
6. Lowalekar, H. (2016). Implementing Theory of Constraints (TOC) Replenishment Solution: A Case Study, **ORSI 2016**, BIMTECH, Noida (12-14 Dec 2016).
7. Ravichandran, N. (presenter), & Lowalekar, H. (2016). Management of Patient response time in an Ophthalmology clinic. **European Conference on Operational Research Conference 2016**, Poznan (3-6 July 2016).
8. Suchdeo, M., & Lowalekar, H. (2016). Application of TOC thinking processes in catering services: a case study, **7<sup>th</sup> International Conference on Excellence in Research and Education (CERE)**, IIM Indore (5-8 May 2016).

9. Lowalekar, H. (2015). Markovian analysis of a replenishment policy for perishables under random supply environment, **Society of Operations Management (SOM) 2015**, IIM Calcutta (11-13 Dec 2015).
10. Lowalekar, H. (2015). Application of Theory of Constraints in Blood Banking, **INFORMS 2015**, Philadelphia (1-4 Nov 2015).
11. Lowalekar, H., Raghu, T.S., & Vinze, A. (2014). Blood Distribution Game, **INFORMS 2014**, San Francisco (9-12 Nov 2014).
12. Lowalekar, H. (2012). Reducing Waiting Time in the Outpatient Department at an Eye Hospital: A Case Study, **4<sup>th</sup> Conference on Research and Excellence**, Indian Institute of Management Indore, Indore.
13. Lowalekar, H. (2010). Integrated Model for Blood Bank Operations, **3<sup>rd</sup> Management Consultation on Healthcare in India (MCHCI)**, Indian Institute of Management Indore, Indore.
14. Lowalekar, H. (2009). Integrated Model for Blood Bank Operations, **2<sup>nd</sup> IIMA Doctoral Colloquium**, Indian Institute of Management Ahmedabad, Ahmedabad.
15. Vasudha, T., & Lowalekar, H. (2008). Karnavati Electricity Company Ltd., **3<sup>rd</sup> National Conference on Management Science and Practice (MSP)**, Indian Institute of Management Ahmedabad, Ahmedabad.
16. Lowalekar, H. & Ravichandran, N. (2007). A Spreadsheet based Simulation Model for Revenue Management in Mobile Telephony, **40<sup>th</sup> Annual Convention of Operational Research Society of India (ORSI)**, Indian National Science Academy, New Delhi.

## WORKSHOPS AND SEMINARS

1. Lowalekar, H. (2017). Theory of Constraints and Logical Thinking Process, **CII National Level Competition on Six Sigma**, Bangalore (25-26 Sep 2017).
2. Iyengar, D. (presenter), & Lowalekar, H. (2017). How to Combine Theory of Constraints and Lean for the Best Operational Results, **APICS- Puget Sound Pro. Dev. Dinner Meeting**, Bellevue, WA (26 Jan, 2017).
3. Lowalekar, H. (2015). Application of Theory of Constraints (TOC), **CII One Day Master Class on Emerging Practices to Achieve Breakthrough Results**, Bangalore (8 Oct 2015).

4. Lowalekar, H. (2012). Spreadsheet Modeling, **Advanced Workshop & Tutorial on Operations Research 2012**, Indian Institute of Management Indore, Indore (22 -25 Aug 2012).
5. Lowalekar, H. (2012). Reducing Waiting Time in the Outpatient Department at an Eye Hospital: A Case Study, **Advanced Workshop & Tutorial on Operations Research 2012**, Indian Institute of Management Indore, Indore (22 -25 Aug 2012).
6. Lowalekar, H. (2012), Spreadsheet Modeling and Simulation, **Workshop for Operations Research Teachers**, Durgadevi Saraf Institute of Management Studies, Indore (14-18 Mar 2012).
7. Lowalekar, H. (2011). Modeling of Blood Bank Inventory Systems, **Workshop on Reliability and Maintainability**, Department of Mathematics, Holkar Science College, Indore (31 Oct- 4 Nov 2011).

## RESEARCH GRANTS

1. **Fulbright Postdoctoral Fellowship** (2013-14), Area of Specialization: Public Health, Institution: W.P Carey School of Business, Arizona State University, USA.

## TEACHING EXPERIENCE

**Doctoral level** courses taught at Indian Institute of Management Indore

- Simulation Modeling and Analysis
- Theory of Constraints

**Graduate level** courses taught at Indian Institute of Management Indore

- Decision Analysis
- Quantitative Techniques
- Data Analysis for Decision Making
- Introduction to Spreadsheets
- Modeling and Analysis with Spreadsheets
- Business Research Methods
- Theory of Constraints
- Logical Thinking Processes
- Statistics
- Stochastic Processes
- Cause and Effect

**Executive level** courses taught at Indian Institute of Management Indore

- Introduction to Probability and Statistics
- Theory of Constraints
- Logical Thinking Processes
- Quality Management
- Problem Structuring
- Theory of Constraints
- Lean Manufacturing
- Computing Tools for Business Decisions

**CONSULTING EXPERIENCE**

1. Consultancy Project for selection for the post of Advisors, Atal Bihari Vajpayee Institute of Good Governance and Policy Analysis (2019)
2. Recruitment of HR Managers, Senior Accounts Officer, Programmer (Regular and Contract) for Madhya Pradesh Poorva Kshetra Vidyut Vitaran Company Limited (2012).
3. Recruitment of Assistant Engineer, Junior Engineer, Accounts Officers for Madhya Pradesh Paschim Kshetra Vidyut Vitaran Company Limited (2012).

**PROFESSIONAL AND SERVICE ACTIVITIES**

**Reviewer** for the following journals:

- European Journal of Operational Research
- Transportation Research Part E: Logistics and Transportation Review
- International Journal of Production Economics
- Journal of the Operational Research Society
- International Journal of Procurement Management
- Opsearch
- Indore Management Journal
- Technology Operation Management

**Administrative responsibilities** at Indian Institute of Management Indore:

- Convener, Common Admissions Test (CAT) 2020.
- Chairperson, Admissions, 1 April 2019 - 31 March 2021
- Coordinator, Integrated Programme in Business Analytics, 1 April 2019- November 14, 2019



- Chair, IT facilities & ERP, 1 April 2018 - 31 March 2019
- Coordinator, Himalaya Outbound Programme, April 1 2017 - 31 March 2019
- Area Chairperson, Operations Management and Quantitative Techniques Area, April 1 2015- March 31 2017
- Member, Admissions Committee, September 2014 - 31 March 2019
- Coordinator, Preparatory Programme, April 1 2015 - 31 March 2019
- Coordinator, Certification Programme for Lean Six Sigma Facilitators, May-June 2015
- Coordinator of In-company Training programmes for SBI Life and NTPC Ltd.
- Coordinator of 4th edition of National Youth Conference, 2012

## ACADEMIC ACHIEVEMENTS

- **Best Teacher Award 2019, 2016 and 2012** at Indian Institute of Management Indore (2019, 2016, 2012).
- **Best Thesis Proposal Award** in the “Production and Quantitative Methods” track at Doctoral Colloquium, an international conference organized by Indian Institute of Management Ahmedabad (2009).
- **Silver Medal** for securing 2<sup>nd</sup> rank in Mechanical Engineering in Rajiv Gandhi Proudhyogiki Vishwavidyalaya Bhopal (2004).

## PERSONAL DATA

Name	:	Harshal Lowalekar
Gender	:	Male
Date of Birth	:	20 April, 1983
Place of Birth	:	Indore, India
Marital Status	:	Married
Office Address	:	Operations Management & Quantitative Techniques Area Indian Institute of Management Indore Prabandh Shikhar, Rau-Pithampur Road Indore-453556, Madhya Pradesh, India Phone: +91-731-2439578
Email	:	<a href="mailto:harshal@iimdr.ac.in">harshal@iimdr.ac.in</a>
Languages Known	:	English, Hindi, Marathi, Spanish (introductory)

## REFERENCES

Available on request