



MNIT:

[https://mnit.ac.in/dept_dms/p
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Google scholar

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Dr. AYUSH GAUTAM (Ph.D.)

Assistant Professor, Department of Management Studies, MNIT Jaipur

Ph.D. (Operations), Department of Management Studies, IIT Delhi

MTech , IIT Roorkee

Newton Bhabha Research Fellow, Loughborough University, UK



Area of Interest

- Circular Economy, Circular supply chain
- Project Management Waste management
- Supply chain management
- Behavioural psychology and Sustainability for Infrastructure
- Logistics and Transportation
- Quality Management
- Industrial Engineering

I am working as a **Assistant Professor** at **MNIT Jaipur**. Prior to that, I was working as Analytics Advisory Specialist at Accenture, in the analytics and supply chain domain. I did PhD at IIT Delhi, graduated from IIT Roorkee. I developed a framework for managing the huge amount of solar PV and its balance of system waste using concept of Circular economy. My expertise lies in performing and simulating complex logistics problems using statistical software's, implementing analytic models and MCDM techniques for strategic planning and testing sequences for forecasting etc. My qualification for this position can be demonstrate by some of my projects on Supply chain Analytics, Optimizing Transport Network for Sustainable Supply Chain, Food supply chain framework for India, Behaviour Supply Chain, Factors affecting time duration of a train journey etc.

Position Held

S. No.	Post	Organization	Start date	End Date
1	Assistant Professor	MNIT Jaipur	14 th February 2024	Presently working
2	Analytics Advisory Specialist	Accenture	2 nd August 2022	13 th February 2024
3	Product Consultant	VERDIS	14 th March 2022	25 th June 2022

Education

Year	Degree/Examination	Institution/Board	Percentage
2022	PhD	Indian Institute of Technology, Delhi	8.415
2017	MTech.	Indian Institute of Technology, Roorkee	85
2015	Mechanical Engineering	GURU GHASIDAS CENTRAL UNIVERSITY, BILASPUR	81
2010	Twelfth	LASEA Jhalawar (CBSE)	81.4
2008	Tenth	KV Jhalawar (CBSE)	74.0

Projects

Ph.D. Thesis: - Modeling and Analysis of Management of Solar Panel e-waste: a Circular Economy Perspective (2022)

- Estimation of EOL solar PV waste generated
- Modelling Circular business model for managing EOL e-waste in developing country
- Analyse operational decisions in the management of Solar panel e-waste

Framework for food supply Chain in India | IIT Delhi (2019)

- PhD major project
- Data Visualization for Indian food grain production infrastructure

Container Supply Chain from dry port (2018)

- Stacking of containers
- Industrial visit to JNPT port trust, India

Mathematical model for Sustainable Supply Chain | IIT Roorkee

2016-17

- Master's Dissertation
- Mathematical model for Minimizing supply chain cost and carbon emissions.
- Level of service, robustness used as constraint.

Optimization of Process Parameters in MMAW process using Taguchi Approach | IT GGV Bilaspur

2014-15

- Bachelor's Thesis
- Welding sample of specification AISI 1040 .
- Current & voltage parameter used for welding.
- Tests were conducted on a UTM (10 tones).
- Results put forwarded to the Taguchi design technique to optimize result.

Training | KaTPP , RUVNL Jhalawar

21 Nov to 5 Dec 2013

- Visit and observe functioning of coal power plant.

Digitization of IIT Roorkee Campus Map | IIT Roorkee-Laboratory Project

Jan -May, 2016

- Obtained GCPs and geo-referenced the given map of IIT Roorkee campus.
- Digitized the geo-referenced raster of the scanned using QGIS.
- Did overlaying and optimal route analysis in QGIS.
- Also did spatial analysis study on map.

Behaviour Supply Chain | IIT Roorkee

Jan-May 2015

- Research paper review of Behaviour insights.
- Modelling of Freight Transportation and Supply Chain

Factors affecting time duration of a train journey | IIT Roorkee- Academic Project Sept-Oct 2015

- Quantitative analysis of factors which affect time of journey.
- Find potential of different factors by using SPSS.
- Defined 8 variable for New Delhi to Bhopal route.

Access Audit of Haridwar Railway Station | IIT Roorkee- Academic Project Oct 2015

- Study for ease of access through physical surveys.
- Simulation of building environment with respect to PWD users.

Mobility Study - Influential Environmental Factors | IIT Roorkee - Academic Project Nov 2015

- Simulation study of IIT Roorkee Campus & Indira Market Dehradun.

- Documented the influence of environmental factors on PWD.

Publications

[End-of-life solar photovoltaic e-waste assessment in India: a step towards a circular economy](#)

A Gautam, R Shankar, P Vrat

Sustainable Production and Consumption 26, 65-77 (Elsevier, Impact Factor 12.2)

Link:- <https://www.sciencedirect.com/science/article/abs/pii/S2352550920303274>

[Managing end-of-life solar photovoltaic e-waste in India: A circular economy approach](#)

A Gautam, R Shankar, P Vrat

Journal of Business Research 142, 287-300, Impact factor 11.3)

Link :- <https://www.sciencedirect.com/science/article/abs/pii/S0148296321009498>

[Evaluating omni channel retailing in the emergence of industry 5.0: A perspective of South Asian generation Z](#)

Vardhan Choubey , Ayush Gautam ,

IJIM Data Insights (Elsevier) Volume :4 // 2024

Link:- <https://doi.org/10.1016/j.ijime.2024.100257>

[Circular economy-based operational strategies in the management of solar photovoltaics e-waste: A multi-stakeholder perspective](#)

Ayush Gautam, Ravi Shankar, Prem Vrat, *Business Strategy and the Environment* (WILEY) 2024

Link: <https://doi.org/10.1002/bse.3963>

Conferences

[Circular Economy based approach for Managing End-of-Life Solar PV waste in India](#) A Gautam, R Shankar, P Vrat

ORSI, IIM Ahemdabad

[Managing End-of-Life Life Solar PV –A futuristic Problem](#)A Gautam, R Shankar, P Vrat

Industry Day IIT DELHI

[Classification and Estimation of Solar Panel waste in India](#)A Gautam, R Shankar, P Vrat

AGBA's 16th World Congress 16 (Best paper Award)

Featured

By Most Renounced PV Magazine India could have 2.95bn tons of solar waste by 2047

<https://www.pv-magazine.com/2021/05/25/india-could-have-2-95bn-tons-of-solar-waste-by-2047/>

Finalist of UK Alumni Awards 2021.

Elected as Co-curricular and Academic Interaction Council (CAIC) PhD representative of IIT Delhi

Awards / Scholarships / Academic Achievements

- MHRD Scholar
- Newton Bhabha International Research fellowship by British Council
- Won 1st Prize in school Hand writing competition.(English)

Skills

Computer languages Basics of C and R

Software Packages

Any Logic	MATLAB	SPSS
Mini Tab	MS Excel	Tableau
ANSYS	SQL	STAN

Additional Courses Taken

- Operation Management
- Public private Partnership
- Evolutionary optimization
- Stochastic Process Modeling
- Sustainable Transportation Development
- Project management and Operation Research
- Data Visualization
- Supply Chain management
- Quantitative Techniques
- Operations Planning and Control
- Transport Infrastructure Planning and Management

Languages Known English (SRW) , Hindi (SRW)

Conferences, Workshops, Industry Interaction

- 1) Attended Workshop on New Frontiers of Interpretive Research Methods.(26th November 2019)
- 2) Attend Factor Analysis workshop at Delhi University (29-5 October 2019)
- 3) Visit Renewable Energy India Expo (18-20 September 2019)
- 4) Attended a workshop on Fuzzy Evidential Reasoning Algorithm (FERA) held on 29th October, 2018, organized by Prof. Ravi Shankar at Department of Management Studies.
- 5) Attend workshop on 'Make In India: Importance of Operations and Supply Chain Management' at IIT Roorkee.
- 6) Attend workshop on 'Transportation safety' at IIT Roorkee.
- 7) Participated in 2nd Global Re-invest INDIA-ISA partnership (3-5 October 2018)
- 8) Attend DEA workshop at SAU Delhi (27-29 November 2018)
- 9) Go for industry visit NISE and ReNew power.
- 10) Attend Solar Expo in Faridabad
- 11) Attended GIAN course on Data Analytics at IIT Patna. (February 2018)
- 12) Case study visit at PV diagnostics, E-parisara, Adate Recycling and Seelumpur

MEMBER OF PROFESSIONAL BODIES

1. Production and Operation Management Society (POMS)
2. European Institute for Advanced Studies in Management (EIASM)

Positions of Responsibility & Extra Curriculars

8th Urban Mobility India Conference & Expo <ul style="list-style-type: none">• Attended 4 day UMI conference & expo• Organized by IUT in aegis with MoUD, Govt. of India, mandated by NUTP.	November 2015
India International Science Festival <ul style="list-style-type: none">• Participated in Young Scientists Conference.• Organised by MoST and Earth Science Govt. of India, TIFAC & IIT Delhi.	December 2015
Cognizance, Annual tech fest, IIT Roorkee <ul style="list-style-type: none">• Co-Convener for CTRANS, IIT Roorkee• Organized and coordinated departmental events at Centre for Transportation Systems, IIT Roorkee	March 2016
EQUILIBRIO, GGU Annual Tech fest <ul style="list-style-type: none">• Event Head, Department of Mechanical engineering, ITGGV Bilaspur• Organized and coordinated departmental events at ITGGV Bilaspur	2013,2014
Social Science Exhibition <ul style="list-style-type: none">• Organised by Kendriya Vidyalaya Sanghtan, Jaipur Region• Participated in Hindi Skit	20-22 August 2007
UDAAN, University magazine <ul style="list-style-type: none">• Member of Management Team	2011-13
TARANG, University Band <ul style="list-style-type: none">• Congo player, drummer• Participate in various inter and intra university events.	2011-2014
Scouts And Guides <ul style="list-style-type: none">• Nominated for Rajya Puraskar• Clear Pratham, Dwitiya & Tritiya Sopan	2004-2010
Parasailing Programme <ul style="list-style-type: none">• By NAF Chapter Rajasthan• Sponsored by KVS and NAF New Delhi	December 2004
Adventure Camp at Manali <ul style="list-style-type: none">• By Directorate of Mountaineering and allied sports , Govt of HP, India• Trekked 70 KMS at 12500 feet height on Himalayas.• Done rock climbing, rappelling, river crossing, trekking, camping, jungle craft, white water rafting.	16 - 25 May 2007

References

Prof. Ravi Shankar (Research Supervisor)
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Prof. Prem Vrat (Research Supervisor)
Mechanical Engineering Department
IIT DELHI, +91 9810568680
profpremvrat.iitd@gmail.com,

Prof. Ramesh Anbanandam
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