



Faculty Development Program

on

Fundamentals of Operations Research

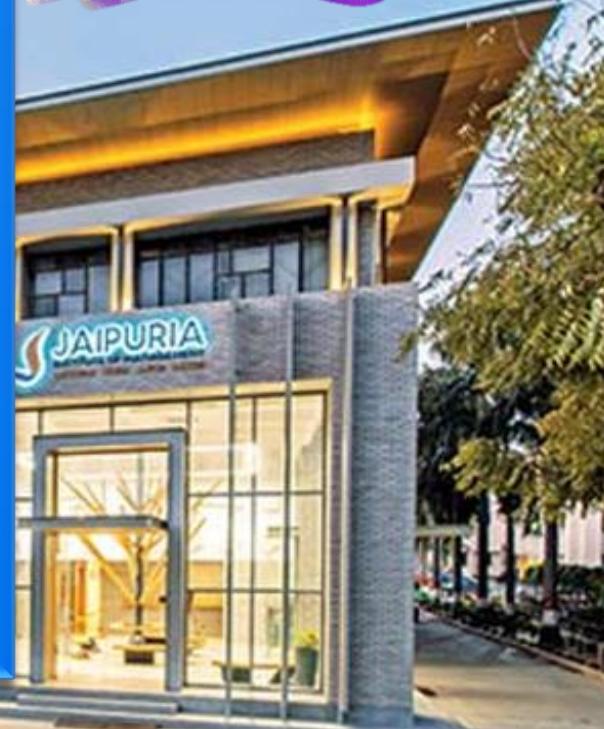
(29th January 2024 - 3rd February 2024)

Sponsored by
AICTE Training and Learning (ATAL) Academy,
New Delhi, India

Organized by



Jaipuria Institute of Management,
Lucknow, Uttar Pradesh -226010
Website address: www.jaipurialucknow.ac.in



About the Institute

Jaipuria Institute of Management, Lucknow was established in 1995, and has produced successful and responsible business leaders and entrepreneurs. The institute is AICTE approved and the PGDM programs are recognized by Association of Indian Universities as equivalent to MBA and accredited by NAAC (A+) and NBA. The institute adopted output-based education (OBE) from the academic year 2018-19. The institute provides dual specialization in business analytics, marketing, operations management, human resource, finance, and family business & entrepreneurship. The institute is committed to research and runs a Fellow Program in Management, offering a rigorous academic and research platform.

Apart from academic activities the institute is actively promoting entrepreneurship culture within the campus as well as in the region. The institute has a Centre for Entrepreneurship and Family Business with focus on training and mentoring in entrepreneurship among the students, first-generation entrepreneurs and family business owners in the region. The Centre also actively engages with local entrepreneurs and start-ups to help them establish and scale their business in the region. To support the activities of the incubation cell, institute has established an advanced business analytics lab with 3D printing and AR-VR facilities.

About the FDP

The basic Faculty Development Program in Fundamentals of Operations Research offers a transformative learning experience that holds paramount significance for both business success and faculty enrichment. In today's intricate business landscape, where data-driven insights steer strategic decisions, operations research stands as a linchpin. This program is meticulously crafted to empower educators with this pivotal knowledge.

Participants will collaborate with distinguished experts, delving into a comprehensive curriculum covering optimization techniques. By gaining hands-on experience through practical sessions and research articles, faculty members will be equipped to nurture students' abilities to dissect complex problems and devise innovative solutions.

By participating, educators amplify their pedagogical capabilities and play an integral role in molding future leaders adept in harnessing the power of operations research for astute decision-making in their areas.

Topics to be Covered

Learners will gain hands-on experience on tools & technologies that are used to solve various operations research problems. The program will cover linear programming, shadow prices and sensitivity analysis, transportation problem, network optimization, goal programming, and graph theory based optimization, application of OR tools in research and practice.

FDP Highlights

- Comprehensive coverage of operations-research topics
- Hands on/practice/Lab sessions on Excel solver, GAMS, QSB and other software
- Sessions by academic experts to understand application of OR for optimization.
- Industrial visit during FDP.
- Discussion on articles from operations research area.

Eligibility of Participant

Participants should be Assistant Professors/Associate Professors/Ph.D. scholar/PG students from the HEIs from the same city or within 100 km of host institute. Number of seats is limited therefore shortlisting will be done after registering for FDP. Nomination is required by a college principal/director to attend this FDP.

Important Information for Participants

- No registration fee and limited seats
- The registration for the FDP is on first cum first serve basis.
- E-Certificates shall be issued by AICTE Training and Learning (ATAL) academy to those participants who have:
 - Attended the program with minimum 80% attendance, **and**
 - Scored minimum 60% marks in the test conducted at the end of the FDP.

To join this FDP, you are requested to register your name by clicking the link:

<https://atalacademy.aicte-india.org/signup>

Register with the FDP: "Fundamentals of Operations Research"

FDP Schedule

29th Jan, 24	30th Jan, 24	31st Jan, 24	1st Feb, 24	2nd Feb, 24	3rd Feb, 24
9:00 – 9:30 Inauguration					
9:30 -12:00 Introduction to Linear Programming	9:30 -12:00 Duality and sensitivity analysis	9:30 -12:00 Transportation Problem	9:30 -12:00 Graph theory-based optimizations- 1	9:30 -1:00 Industrial Visit	9:30 -12:00 Shortest path and max flow
12:00 – 1:00 Article discussion	12:00-1:00 Article discussion	12:00-1:00 Article discussion	12:00-1:00 Article discussion		12:00-1:00 Reflection Journal
1:00-2:00 Lunch	1:00-2:00 Lunch	1:00-2:00 Lunch	1:00-2:00 Lunch	1:00-2:00 Lunch	1:00-2:00 Lunch
2:00 – 4:30 Simplex Method	2:00 – 4:30 Integer Programming	2:00 – 4:30 Goal Programming	2:00 – 4:30 Graph theory-based optimizations- 2	2:00 – 4:30 Vehicle Routing Problem	2:00 – 4:00 MCQs, Feedback & Interaction
4:30 – 5:30 Practical Session/ Lab (Linear Programming)	4:30 – 5:30 Practical Session/ Lab (Integer Programming)	4:30 – 5:30 Practical Session/ Lab (Goal Programming)	4:30 – 5:30 Application of OR tools in research and practice.	4:30 – 5:30 Practical Session/ Lab (Vehicle Routing Problem)	4:00 – 5:00 Valedictory Session

Session Experts

Prof. Yogesh Agarwal

Area- Operations Research

Professor (Retd.), Indian Institute of Management (IIM), Lucknow

Adjunct Faculty, Jaipuria Institute of Management, Lucknow

Prof. Samir K. Srivastava

Area- Operations Management

Professor, Indian Institute of Management (IIM), Lucknow

Dr. Faiz Hamid

Area- Operations Research,

Associate Professor, Indian Institute of Technology (IIT), Kanpur

Dr. Ajay Jha

Area- Operations and Decision Sciences

Associate Professor, Jaipuria Institute of Management, Lucknow

Dr. Shivam Kushwaha

Area- Production Operation Management & Quantitative Techniques

Assistant Professor, Institute of Rural Management, Anand (Gujarat)

Dr. Richa Srivastava

Area- Operations and Decision Sciences

Assistant Professor, Jaipuria Institute of Management, Lucknow

Patron

Prof. Kavita Pathak

Director, Jaipuria Institute of Management, Lucknow

Coordinator

Prof. Amit Trivedi

Associate Professor (Business Analytics)
Jaipuria Institute of Management, Lucknow

Co-Coordinator

Dr. Richa Srivastava

Assistant Professor (Operations and Decision Sciences)
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