



Department of Mathematics
DEEN DAYAL UPADHYAYA COLLEGE, SECTOR-3, DWARKA

(University of Delhi)

Organizing



National Workshop on Numerical optimization and its future perspectives

Under the Aegis of DBT Star College Program

(12th March – 16th March 2024)

Organizing Committee

Chairman

Prof. Hem Chand Jain

Principal, DDU College

Prof. Manoj Saxena

Program Coordinator

DBT-Star College Program

Program Coordinator(s)

Prof. Ratnesh Rajan Saxena

Professor, Mathematics

Dr. Mamta Amol Wagh

Associate Prof., Mathematics

Dr. Poonam Garg

Associate Prof., Mathematics

Organizing Committee Members:

Dept. of Mathematics

Dr. Sudha Arora (TIC)

Ms. Sunita Nadir

Ms. Paramjeet Kaur

Prof. Sanjay Kumar

Dr. Rashmi Gupta

Dr. Tarachand Prajapati

Mr. Amlendu Kumar

Mr. Ravi Kumar Meena

Ms. Aparna

Contact email -

nwnofp1dducdbt@gmail.com

VENUE –

COMPUTER CENTER, 2nd FLOOR,
Deen Dayal Upadhyaya College

About the Workshop

The purpose of this workshop is to bring together the students interested to explore the future perspective of numerical optimization and its applications. Optimization being a very important branch of modern applied mathematics used to solve problems in operations research, computer science, economics, and various other fields. The workshop will be focused on major aspects of optimization - theory, algorithms, and applications. Theoretical sessions will be followed by hand-on sessions with case studies covering the applications in various allied fields of sciences. Knowledge of the methods can be utilized at any platform to solve their own research problems in future and problems at their workplace.

Speakers:

- Prof. Suresh Chandra, IIT Delhi. Research interests: Optimization, Fuzzy Systems, Financial Mathematics, Machine Learning.
- Prof. Amber Srivastava, IIT Delhi, Research Interest: Optimization, Learning and Control, Sequential Decision Making, Industry 4.0. Operations Research, Markov Decision Process and Reinforcement Learning, Manufacturing process optimization, System Identification, Data-driven and Predictive Control.
- Prof. Prashant Palkar, IIT Delhi. Research Interests: Mixed-Integer Nonlinear (and Linear) Optimization, Parallel Computing, Derivative-Free Optimization, Applications of Operations Research, Algorithmic Game Theory.
- Mr. Brij Mohan, Assistant Professor, Hansraj College, University of Delhi. Area of Interest: Partial Differential Equations, Cryptology, Cryptography, Data Structure.

Topics to be covered.

Operational research, Optimization, machine learning, fuzzy systems etc.

Target Audience: Undergraduate science students

Registration

Please fill up the registration form **latest by March 5, 2024.**

Link for registration is

<https://forms.gle/jHpt1WLTNMLNYikn9>

**(Registration is strictly on first come first serve basis)*

No Registration Fee

Cash prize for BEST FIVE projects to be given at the end of the workshop