



## SERB Sponsored One-day Workshop (online) on **Optimization Techniques**



*Organized by*

**Department of Computer Science  
and Engineering**

**Indian Institute of Information  
Technology, Design and  
Manufacturing (IIITDM),  
Kancheepuram.**

**Chennai - 600 127**

*[www.cse.iiitdm.ac.in](http://www.cse.iiitdm.ac.in)*

on

**27<sup>th</sup> January 2024**

**Sponsored By:** Science and Engineering  
Research Board (SERB)

(Scientific Social Responsibility (SSR) policy of  
SERB Start-up Research Grant (SRG) under the  
project titled “**Investigation And Development  
Of Heuristics For The Large Scale Network  
Design Problems Using Two Level Network  
Topologies**”)

### **ABOUT THE INSTITUTE**

Indian Institute of Information Technology,  
Design and Manufacturing, Kancheepuram  
(IIITDM Kancheepuram) is an Institute of  
National Importance established in 2007 by the  
Ministry of Education, Government of India, to  
pursue design and manufacturing oriented  
engineering education and research and to  
promote competitive advantage of Indian  
products in global markets. The institute is  
presently offering various B.Tech programs in  
Computer Science and Engg., Electronics and  
Communication Engg., Mechanical Engg., and  
Smart Manufacturing, M.Tech & DD programs,

and interdisciplinary Ph.D. programs in core and  
applied areas of engineering.

### **ABOUT THE DEPARTMENT**

IIITDM Kancheepuram's Computer Science and  
Engineering curriculum is modeled on the ACM  
recommendations and is the first of its kind  
engineering program offered in India. This  
program is aimed at producing engineers  
equipped with skills required for efficient  
hardware-software interaction. In addition to  
courses offered by the conventional Computer  
Science curriculum, this novel program offers  
core courses such as Embedded Systems,  
Human-Computer Interaction, Simulation and  
Modelling, Signals and Systems, Product Design  
etc. The Department offers programmes such as  
B.Tech (CSE, CSE-AI both), Dual Degree  
programmes, M.tech in AI and Ph.D in various  
research areas. There are 14 faculty members  
who are actively involved in different research  
areas such as, Artificial Intelligence, Machine  
Learning, Image processing, Computer Vision,  
High Performance Computing, Theoretical  
Computer Science, IoT, Cyber Security etc.

### **IMPORTANT DATES**

Last date for applications : 24<sup>th</sup> January 2024

Intimation of selection : 25<sup>th</sup> January 2024

Confirmation of participation : 26<sup>th</sup> January 2024

**No registration fee. Registration is on a first  
come first serve basis. Selected registered  
candidates will be communicated via Email.**

**For further details, please contact:**

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**SERB Sponsored One-day Workshop  
(online mode)  
on**

**Optimization Techniques**

**27<sup>th</sup> January 2024**

**APPLICATION FORM LINK**

**Please fill the Google form using  
the link below**

Link: <https://forms.gle/Nx2zZsqzV9VLZF9f7>

Eligible faculties are requested to submit the filled in application (Google form) along with a valid institute faculty identity card scan-copy (name and affiliation clearly visible) on or before **24<sup>th</sup> January 2024**.

**Candidates are required to register using their institute email id only. Candidates registering through personal email ids will not be shortlisted for the workshop.**

**ABOUT THE WORKSHOP:**

**INTRODUCTION**

Optimization techniques are a set of mathematical and computational tools used to find the best solution to a given problem within a set of feasible solutions. These techniques are widely employed in various fields, including engineering, finance, operations research, machine learning, and many others. The primary goal of optimization is to improve the performance or efficiency of a system, process, or algorithm. The proposed one-day workshop aims to deliver the topics related to various optimization techniques. It will cover different optimization techniques available for solving linear programming, multi-objective optimization, network models, and combinatorial optimization problems, etc.

**WORKSHOP OBJECTIVES**

The objective of this event is to educate the applicants on various optimization techniques available for solving different kinds of problems that occur in the real world. The workshop will also include solving some real world problems.

**TOPICS TO BE COVERED**

- Introduction to Optimization Techniques and Linear Programming
- Introduction to Multi-Objective Optimization and Network Models
- Optimization Techniques for Some Combinatorial Optimization Problems

**RESOURCE FACULTY**

The resource faculty includes expert(s) from IITDM Kancheepuram.

**ELIGIBILITY**

Engineering college faculties are eligible to apply for the workshop.

**REGISTRATION FEE**

There is no fee for the participants.

**MODE**

The workshop will be conducted in online mode, and the attendance during all the sessions is compulsory to receive the certificate. The workshop link will be sent to the shortlisted candidates by 26<sup>th</sup> January 2024.