

# ONE WEEK ONLINE FACULTY DEVELOPMENT PROGRAMME (FDP)

ON

## Emerging Optimization Tools for Engineering & Research

(09<sup>th</sup> – 13<sup>th</sup> September 2024)

Organized by

Department of Mechanical Engineering

Indian Institute of Information Technology Design and Manufacturing Kurnool

Kurnool – 518007, Andhra Pradesh, India

(An Institute of National Importance under Ministry of Education, Govt. of India)



### Preamble:

IIITDM Kurnool is an Institute of National Importance established in 2015 and fully funded by Ministry of Education, Govt. of India with the mandate of specializing in design and manufacturing oriented engineering education and research. The curricula and other academic/research activities adopt an inter-disciplinary approach with a focus on experiential learning and information science-based modern tools and techniques. A strong foothold in the design market will propel the nation's growth and IIITDM's are a result of the Government of India's vision to produce next-generation engineers capable of designing innovative products.

### About FDP:

The objective of this Faculty Development Program is to explore emerging optimization techniques and their recent applications in industries and academia for research, quality improvement and offline quality control of any product or process. This program will also discuss theoretical and practical aspects, which are of interest for practicing engineers, academic personnel, research scholars and PG level students. This FDP is intended to promote the application potential of recently developed optimization methods through hands-on practice sessions. The FDP has been premeditated in such a way that it can satisfy the needs of academicians, research scholars and industrial personnel in carrying out their research work within the scope of this domain.

### Major Course Contents:

- Design and Analysis of Experiments
- Response Surface Methodology
- Modern Evolutionary Optimization Methods
- MCDM Methods
- Hybrid MCDM Methods
- Reference Management Tools
- Scientific Writing: Research article and Proposal

### Faculty conducting this FDP:

The programme will be conducted in **online mode** by the faculty members from IIITDM Kurnool, Academicians in the concerned field from IITs/NITs/IIITs/CFTIs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

### Eligibility:

The programme is open to faculty and PG/PhD students of Engineering Colleges, Degree Colleges and other allied disciplines in India. Industry personnel working in the concerned /allied discipline can also attend.

### Registration Fee:

Faculty and Industry Participant	Rs. 1500/-
Students (PG/Research Scholars)	Rs. 1000/-
* For SC/ST/Female Candidate @50% discount	

The registration fee is to be collected in the form online transfer only using the following details:

### Online Transfer Details

Account Name : IIITDM KURNOOL  
Account No : 756701001024  
IFSC : ICIC0007567  
Bank and Branch: ICICI Bank, C-Camp Kurnool

### How to apply:

1. Pay the registration fee as mentioned in the above table.
2. Fill the online registration form using the link/QR code given below:

### Registration Link:

<https://forms.gle/9bW1K9S1mr8Dc1pP8>

### QR Code:



3. Selection will be done based on first-come-first-serve basis to a maximum number of 150.
4. Candidates will be issued satisfactory certificates on successful completion of the course.

### About IIITDM Kurnool:

Indian Institute of Information Technology Design and Manufacturing (IIITDM) Kurnool is an Institute of National Importance under the Ministry of Education, Government of India. It is established in the year 2015 and aimed to become a Centre of Excellence for pursuing Design and Manufacturing Oriented Engineering Education and Research domains. Currently, the Institute is offering 4 B.Tech programmes in Computer Science and Engineering (CSE), Artificial Intelligence and Data Science (AI&DS), Electronics and Communication Engineering (ECE), and Mechanical Engineering (ME), 3 B.Tech Dual Degree programmes in CSE, ECE & ME, and 6 M.Tech programmes. Ph.D. programmes in the Science and Engineering Departments are being offered in frontier research areas under the guidance of experienced faculty.

The IIITDM Kurnool campus is located far away from the bustling life of metropolis in the mineral-rich mountain trails of Rayalaseema region of Andhra Pradesh. The place offers a perfect environment to nurture a peaceful state of mind required to carry out research and other student activities. The campus is situated atop a hill the oversees the Kurnool city. The strong winds blowing over the Tungabhadra River makes the overall experience at the campus similar to that offered by a hill station. The beautiful mountain and valley offer a scenic view of sunrise and sunset. At IIITDMK we are highly motivated, committed and under a pledge to create a sustainable environment which promotes enhanced nurturing, progressive higher learning and character building of the students. Our motto is to build a better future for our nation through dedicated, confident, positive, skilled and world class intellectuals who by putting in their efforts will lead India to a better dawn.



### About Department:

The Department of Mechanical Engineering came into existence in the year 2016. The Department has 10 qualified and dedicated regular faculty members with specializations in various areas of Mechanical Engineering. At present, the Department is offering 1 UG, 02 PG programmes, and Ph.D. programme in cutting-edge research areas.



### Organizing committee:

#### Chief Patron

**Prof. B. S. Murty**  
Director

Indian Institute of Information Technology  
Design and Manufacturing Kurnool  
Jagannathagattu Hill, Dinnevarapadu Village,  
Kurnool – 518007, A.P., India

#### Patron

**Dr. Muvvala Pullarao**

Assistant Professor and Head  
Department of Mechanical Engineering  
IIITDM Kurnool, A.P., India

#### Coordinators

**Dr. Akhtar Khan & Dr. Vipindas K.**

Assistant Professor  
Department of Mechanical Engineering  
IIITDM Kurnool, A.P., India

Contact details: +91-9406255980, +91-8301870959

#### Student -Coordinators:

Student Name	Contact Details
A. Siva Bhaskar	+91-9014120818
NV Sunil Kumar	+91-9490193283
Surendra Mohan	+91-9400654372



## One Week Online Faculty Development Program

On

## Emerging Optimization Tools for Engineering and Research

(09<sup>th</sup> – 13<sup>th</sup> September 2024)

Coordinators

**Dr. Akhtar Khan**

Assistant Professor  
Department of Mechanical Engineering  
Indian Institute of Information Technology  
Design and Manufacturing Kurnool  
Kurnool – 518007, A.P., India

&

**Dr. Vipindas K.**

Assistant Professor  
Department of Mechanical Engineering  
Indian Institute of Information Technology  
Design and Manufacturing Kurnool  
Kurnool – 518007, A.P., India

### Important Dates

Start date of online registration	08 <sup>th</sup> July, 2024
Last date of online registration	15 <sup>th</sup> Aug., 2024
Selection list by email	31 <sup>st</sup> Aug., 2024
Duration of the FDP	09 <sup>th</sup> – 13 <sup>th</sup> Sept., 2024

**One Week Online  
Faculty Development Program**



**On  
Emerging Optimization Tools for Engineering and Research  
(09<sup>th</sup> – 13<sup>th</sup> September 2024)**

Organized by

**Department of Mechanical Engineering**

**Indian Institute of Information Technology Design and Manufacturing Kurnool**

**Kurnool – 518007, Andhra Pradesh, India**

**(An Institute of National Importance under Ministry of Education, Govt. of India)**

---

**COURSE REGISTRATION FORM**

1. Name of the Participant: .....
2. Gender: .....
3. Pursuing Degree (**For students**): (Ph.D. / PG / UG) .....
4. Degree (**For Faculty/Professionals**): .....
5. Category: (SC/ST/OBC/Gen) .....
6. Department: .....
7. Organization Name and Address: .....  
.....
8. Mobile Number: .....
9. Email: .....
10. Payment Transaction Number and Date: .....
11. Fee Paid: (Rs) .....

***I agree to abide by the rules and regulations governing the FDP.***

Signature of the Participant

Place:

Date: