



University of Oum El Bouaghi  
Institute of Technology  
Department of Food Science

Organizes:



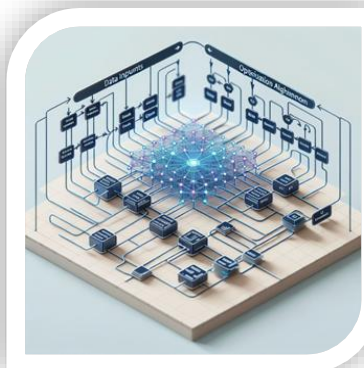
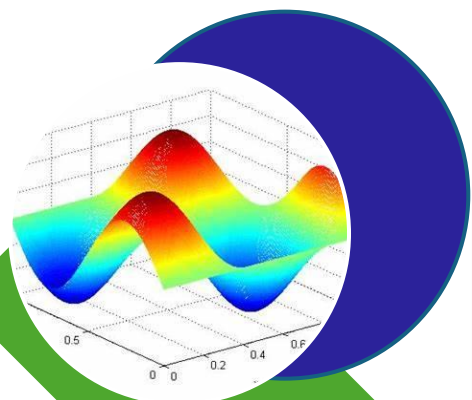
## Training Workshop

### Optimization and experimental Design

### Modeling and Optimization using Experimental design and Artificial Intelligence

7 – 8 May 2025

Institute of Technology-Ain M'lila



### Preamble

**Experimental design** enables the identification of influential factors and the optimization of complex responses with a reduced number of trials, avoiding the pitfalls of the "one-factor-at-a-time" approach. When combined with AI, these tools become even more powerful: neural networks and optimization algorithms can model nonlinear systems, predict multidimensional behaviors, and automate the search for optimal solutions. For participants, this translates into an enhanced ability to innovate, rigorously validate hypotheses, and bridge theoretical models with industrial or research applications.

This training program is designed for professionals and researchers in **biotechnology, biological sciences, process engineering, chemistry**, as well as **food science** and **agronomy**. Aimed at PhD students, academic researchers, R&D scientists, and engineers. It combines theory and practice to address current challenges in experimental design and optimization

### Objectifs

Upon completion of this workshop, participants will be able to :

- Design and independently analyze tailored Design of experiments protocols,
- Integrate AI to optimize multivariate process responses,
- Validate predictive models through integrated computational statistics.

### Honorary President

Pr. DIBI Zohir (Rector of the University of OEB)

### General Coordinator

Pr. ZAABAT Mourad (Director of the Institute)

### President

Pr. AOUAR Lamia

### President of the organizing Committee

Mme BOUSSAHA Soumia

### Members of the Organizing Committee

Dr. SANAH Ibtissem

Dr. BOUCHEKIOUA Hichem

Dr. SIABDALLAH Islam

Dr. BOUNAB Hassina

Mr ABDENNEBI Salah

Dr. BOULTIF Ayache

Dr. ZAITER Abdallah

Dr. MEGHLOUI Fatima

Dr. KERBAB Khaoula

### Trainers

Dr. BERKANI Mohamed

(Biotechnology Laboratory (ENSB))

Dr. MEROUANE Fateh

(Biotechnology Laboratory (ENSB))

### Participation fees : 2000 DA (Free training for PhDs)

Accommodation is not included and remains at the expense of the participants.

### Registration link

<https://forms.gle/FUv4f2AFxNfhed9c9>

### Contact :

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