Program

Day 1	
8h00-8h30	Participant reception
8h30-9h30	Software installation
9h30-11h00	• Introduction to Design of Experiments (DoE) • DoE vs. "One Factor at a Time" Approach • Full and Fractional Factorial Designs • Screening Design for Influential Factors Identification • Statistical Analysis of Experimental Designs
11h00-11h15	Coffee Break
11h15-12h30	• Response Surface Methodology (RSM) for Response Optimization *(Box-Behnken, CCD designs)* • Mapping of Different DoE Types and Results Interpretation
12h30-13h30	Lunch Break
13h30-16h30	• Software Presentation: Design-Expert and Minitab • Practical Session: Case Study
Day 2	
9h00-10h30	Introduction to Artificial Intelligence (AI) and Artificial Neural Networks (ANN)
10h30-11h00	Coffee Break
11h00-12h30	• MATLAB Software Presentation • Neural Network Implementation Using MATLAB
12h30-13h30	Lunch Break
13h30-16h30	• Neural Network Optimization Using Genetic Algorithm (GA) and Particle Swarm Optimization (PSO) • Experimental Validation of Prediction Models • Practical Session: Case Study