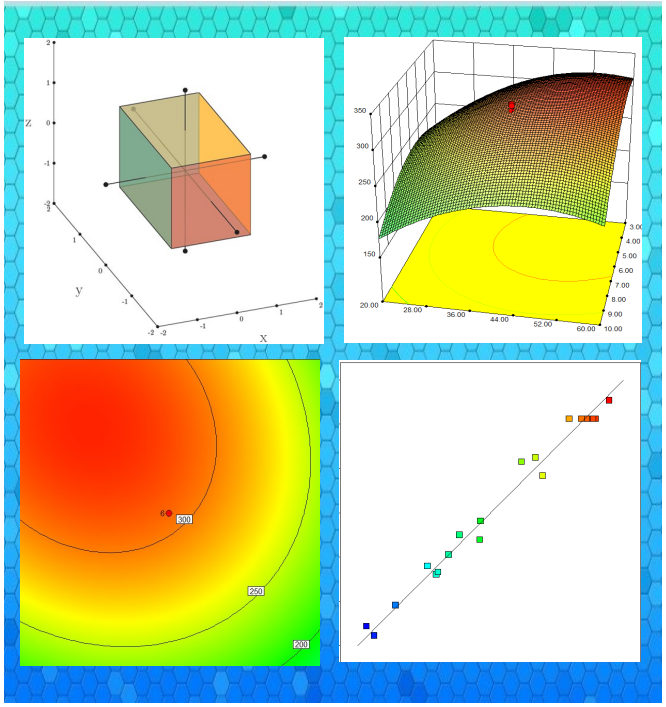
Overview

Response Surface Methodology (RSM) is a collection of mathematical and statistical techniques based on the fit of a polynomial equation to the experimental data, which must describe the behavior of a data set with the objective of making statistical previsions. It can be well applied when a response or a set of responses of interest are influenced by several variables.

This workshop aims to cover the following goals: to optimize an underlying process and look for the factor level combinations that give us the maximum yield and minimum costs. In some cases, this approach can be used to hit a target or aim to match some given specifications.



Learning Outcomes

- Understand the issues and principles of response surface methodology in design of experiment.
- Apply process optimization in research
- Relate to the application of statistical methods as a tool system optimization in bioprocessing.

Tentative Programme

Day-1

8:45 am	Registration
9:00 am	Introduction to Optimization in Bioprocess Technology
10:00 am	Break and Refreshment
10:15 am	Lecture: Response Surface Methodology-Overview
1.00 pm	Lunch
2:30 pm	*Practical : Optimization (Design Expert)
4:30 pm	Tea break and end of Day-1

Day-2

9:00 am	*Screening (Group activity)
10:30 am	Break and Refreshment
10:45 am	Case study and Discussion
12.00 pm	Certificate giving ceremony
12.30 pm	Lunch and end of workshop

* Participants can bring own laptop

WORKSHOP ON RESPONSE SURFACE METHODOLOGY IN BIOPROCESSING

2-3 February 2016
Computer Lab (Lab 114, Level 1)
School of Industrial Technology
USM

Registration FEES RM 400 ONLY

Workshop Facilitator

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Senior Lecturer
Bioprocess Technology Division
School of Industrial Technology
Universiti Sains Malaysia

Registration:

http://goo.gl/forms/jdX3WKsQw7

Further Enquiry:

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