

## ***Methods of optimization for advanced food processing*** **23-27 May 2016**

Duration: 5 days.

Venue: **FINS, Novi Sad, Serbia**

Target audience: The course is aimed for researchers in the area of food science and technology.

Language: English

Software: Excel, Minitab, Design Expert, Matlab (optional), SAS (optional)

Format: Lectures, examples and assignment

Staff involved: Dr Brijesh Tiwari, Dr Zihang Zhang, Ms Shikha Ojha, Ms Clementine Charoux

### **Agenda**

<b>Date</b>	<b>Time</b>	
<b>Monday 23/05/2016</b> <b>Dr. Brijesh Tiwari:</b> <b>Experimental design</b>	09:00	Registration
	09:30	Overview of the training programme
	10:00	Experimental design tools for advanced food processing
	11:00	Coffee break
	11:30	Experimental design for optimisation studies Response surface methodology
		Mixture design
	13:00	Lunch break
	14:00	Experimental design (examples and applications)
	15:00	Coffee break
	15:30	Q&A, group assignment
<b>Tuesday 24/05/2016</b> <b>Dr. Zihang Zhang:</b> <b>Extraction kinetics</b>	09:30	Recap (Day 1) and assignment
	10:30	Extraction kinetics
	11:00	Coffee break
	11:30	Data analysis and mathematical modelling approaches
	13:00	Lunch break
	14:00	Examples and applications
	15:00	Coffee break
	15:30	Q&A, group assignment
<b>Wednesday 25/05/2016</b> <b>Dr. Zihang Zhang, Dr. Brijesh Tiwari:</b> <b>Chemometrics</b>	09:30	Recap (Day 3) and assignment
	10:30	Introduction to chemometrics
	11:00	Coffee break
	11:30	Factor analysis/PCA
	13:00	Lunch break
	14:00	Examples and applications
	15:00	Coffee break
	15:30	Q&A, group assignment
<b>Thursday 26/05/2016</b> <b>Dr. Zihang Zhang,</b>	09:30	Recap (Day 2) and assignment
	10:30	Microbial growth kinetics/inactivation

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<b>Shikha Ojha: Microbial growth kinetics/inactivation</b>	11:00	Coffee break
	11:30	Data analysis and mathematical modelling approaches
	13:00	Lunch break
	14:00	Examples and applications
	15:00	Coffee break
	15:30	Q&A, group assignment
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<b>Friday 27/05/2016</b>	09:30	Recap (Day 4) and assignment
<b>Discussion and Lectures</b>	10:30	Group discussion and Q&A
	11:00	Coffee break
	11:30	Presentation “Approaches for data analysis”
	12:30	Statistical software and applications
	13:30	Lunch break
	15:00	Closing remarks and Certificates

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