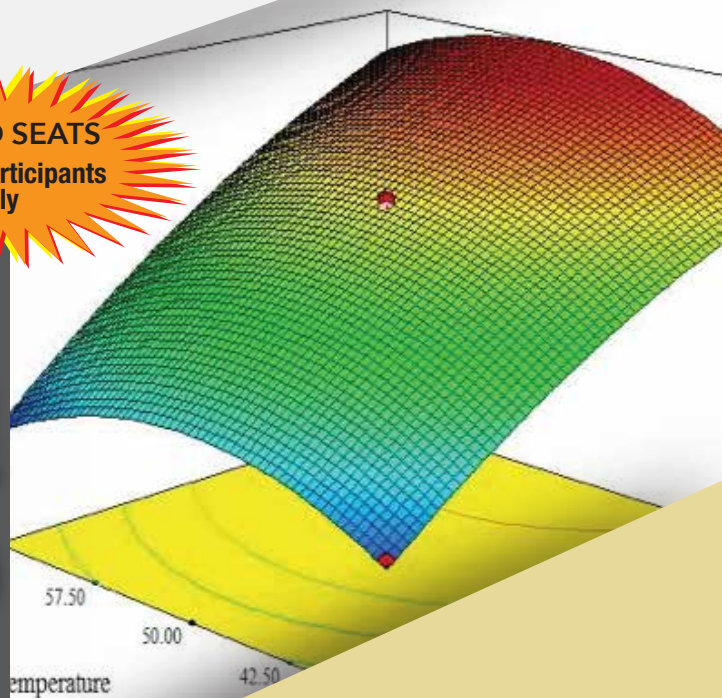




UTM
UNIVERSITI TEKNOLOGI MALAYSIA



SHORT COURSE ON **RESPONSE SURFACE METHODOLOGY (RSM)** FOR PROCESS OPTIMIZATION & BIOSTATISTICS 2020



 **28-29 JUNE 2020**

BIOSCIENCES DEPARTMENT, FACULTY OF SCIENCE
UTM JOHOR BAHRU

COURSE SYNOPSIS


Response Surface Methodology (RSM) explores the relationships between several explanatory variables and one or more response variables. The main idea of RSM is to use a sequence of designed experiments to obtain an optimal response. During the training, the interpretation of the data will be described. We will also show how to use the software for data entry and create surface and contour plot, mathematical model generation and the Statistical-ANOVA analysis data. Please bring your own laptop computer & your research data for further analysis.


Short course on Biostatistics: aims at exposing students to descriptive statistics as well as selected routine parametric and non-parametric tests. Basic usage of the IBM SPSS version 20.0 will also be introduced. In general Biostatistics widely used for describing, summarising and analysing health-related data or any biological science/social science studies. It is essential to understand biostatistics in order to design, conduct and interpret these research data. The basic principles and methods used in biostatistics are covered in this short course, including the technical qualifications necessary for analysing and interpreting data on a descriptive and bivariate level.

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IN-HOUSE Courses can be designed in accordance with organizational requirements.

 Centre for Professional Development,
UTMSPACE Johor Bahru

 07-521 8159 (Ms. Nurafidah)

 07-520 5725

 nurafidah@utmspace.edu.my



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INTRODUCTION

Response Surface Methodology (RSM) and Biostatistics are important tools for executing meaningful and impactful research. RSM is an optimization tool adopted by many experiments while Biostatistics is salient for planning, designing and drawing meaningful interpretation of research findings. The Department of Biosciences (UTM) is committed in organising the aforesaid courses and invite all academicians, researchers, post-graduate students to attend this short course.



FACILITATORS



ASSOCIATE PROFESSOR DR. ROSWANIRA AB. WAHAB a chemist by training, obtained her PhD in November 2012 from Universiti Putra Malaysia. She has published over 100 Web of Science indexed research articles and has a cumulative impact factor of 154 with a H-index of 15. Her current projects include development of functional biocomposite from biomass for enzyme immobilization and sorbent development, alongside computational studies for rational enzyme tailoring. Her research work widely employs statistical optimization designs to improve empirical investigations. She is an expert on RSM and has conducted several in-house hands-on courses.



DR. NAJI A. MAHAT is currently working at the Department of Chemistry, Universiti Teknologi Malaysia. Dr. Naji has research interests in Forensic Science, Biomedical Science, Entomology and Biotechnology. His current projects are 'Biotechnological route for visualizing latent fingerprints immersed in water' as well as developing simultaneous and robust analytical methods for detecting and quantitating drugs and poisons in entomological specimens'. He has wide experience in giving Biostatistics Courses to many government agencies including health professionals in clinical and public health research. He is also a well-known expert in Biostatistics and has been the expert referee for the Ministry of Health Malaysia since 2017.

TENTATIVE PROGRAMME

FIRST DAY: 28 JUNE 2020

7.30 am	Registration
8.30 am	Opening
8.45 am	General Lecture: on RSM and Its application in research
10.00 am	Tea Break
11.00 am	Workshop - 1
12:00 pm	Workshop - 2 Data analysis
13.00 pm	Lunch and prayer
14.00 pm	Hands-on: Software requirements Hands-on: Data search Hands-on: Online search Hands-on Practical 1 Hands-on Practical 2 Hands-on Practical 3
16.00 pm	Session Continued
17.00 pm	Tea break and closing

SECOND DAY: 29 JUNE 2020

8.30 am	Breakfast
9.00 am	Workshop: Introduction to the workshop and Statistical Package Practical 1
10.00 am	Tea break
10:30 am	Workshop - Data analysis; Data interpretation Hands-on Practical1 Hands-on Practical2
12.00 pm	Lunch and Prayer
14.00 pm	Hands-on Practical3
16.00 pm	Wrap up and Discussion
17.00 pm	Tea break and Closing

REGISTRATION FORM

To confirm your registration, please complete this form including payment.

YES! Please register the following participant(s) for this course

I am interested but unable to attend. Please put me on your mailing list

Please tick (/) where applicable

Course Name : **SHORT COURSE ON RESPONSE SURFACE METHODOLOGY (RSM) FOR PROCESS OPTIMIZATION & BIostatISTICS 2020**

Date : **28-29 June 2020**

Venue : **Bioscience Department, Faculty of Science, UTM Johor Bahru**

Fee : **RM450.00** per pax

EARLY BIRD RM350.00 per pax **USD120** per pax

Includes refreshment, course material & Certificate of Attendance

No.	Name of Participant	Mobile No.	Email	NRIC (for HRDF claim)	Fee (RM)

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Cancellations received in writing 30 days prior to the programme are eligible for a refund, subject to a 15% cancellation fee. Cancellations received less than 14 days from the date of the programme are not eligible for a refund. However, substitute attendees are welcome. Please note that the speakers and topics are confirmed at the time of printing. However, circumstances beyond the control of the organisers may necessitate substitutions or cancellations of speakers and/or topics. As such UTMSPACE reserves the right to alter or modify the advertised speakers and/or topics.

FOR FURTHER INFORMATION, PLEASE CONTACT:

Centre for Professional Development, School of Professional and Continuing Education (UTMSPACE), Universiti Teknologi Malaysia,
No. 34 - 50, Jalan Kebudayaan 1, Taman Universiti, 81300 Skudai, Johor
Tel : (607) 521 8159 | Fax : (607) 520 5725 | Website : www.utmspace.edu.my
E-mail : nurafidah@utmspace.edu.my Contact Person : MS. NURAFIDAH