

A Two Day Workshop on Design of Experiments, Taguchi Optimization & Response Surface Methodology

6th - 7th December 2013

Under TEQIP-II, JNTUHCEH

Organized by



Mechanical Engineering Department
JNTUH College of Engineering,
Hyderabad

Coordinators
Dr.M.Srinivasa Rao
Dr.S.Naga Sarada

Objectives of the Program

- To gain complete knowledge about design of experiments while planning experimentation or simulation of systems.
- Taguchi methodology
- ANNOVA & F-test.
- To familiarize with basic concepts of Response Surface Methodology(RSM)

Importance of DOE

In recent years, most of the practitioners of any systems are using either experimentation or simulation as an approach to study the effects of various parameters on the performance measures of their interest. If any of these approaches are used and meaningful conclusions are to be drawn, it should be according to the statistical concept namely “Design of Experiments (DOE)”. The DOE says about the length and frequency of experimentation or simulation for getting information about influence of parameters on the performance measures to the specified confidence level.

Taguchi Optimization

Full factorial experimentation or simulation is time consuming and costly process. So, Taguchi is tried to minimize the number of experiments while maintaining the level of significance called Taguchi Optimization.

Response Surface Methodology

To study the system’s input vs output relationship analytically when standard analytical models do not exist, Response Surface Methodology (RSM) is a prominent technique and the same subsequently could be used to determine the optimum operating conditions of the system.

Who should attend?

- Students, faculty and research Scholars
- Industry people

Salient Contents of the Workshop

- Single factor experiments
- Multiple factor experiments
- 2^k factorial experiments 2^k
- Blocking and confounding in 2^k factorial experiments
- Taguchi methods
- Response Surface methods.

Faculty

Eminent subject experts from Industries and Universities

About JNTUH College of Engineering

JNTU College of Engineering, Kukatpally, Hyderabad since its inception in the year 1965 earned great reputation and fame not only in the state of Andhra Pradesh and in India but also all over the world. The collaborative programs with foreign universities, R&D projects and industrial linkages enhance reputation of the college.

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Chairman: Prof.A. Vinay Babu,
Principal, JNTUHCEH.

Co-Chairman: Prof. B.Sudheer Prem Kumar
Head, MED

Workshop Coordinators

Dr. M Srinivasa Rao

Professor,
Department of Mechanical Engg.,
JNTUH College of Engineering,
Hyderabad.

E-mail: raoms63@yahoo.com

Mobile: 9701527057.

Dr. S Naga Sarada

Professor, MED
JNTUH College of Engineering,
Kukatpally, Hyderabad
E-mail: nagasaradaso@gmail.com
Mobile: 99495 82752.

Registration Fee

Interested persons may apply in the prescribed format along with the Registration fee of Rs.500/- (includes lunch for 2 days) through D.D. in favour of Principal, JNTUHCEH, Payable at Hyderabad or by cash on the inaugural day. The filled in application (hard copy or soft copy) should be **strictly** sent on or before 2nd December, 2013. As the number of participants is limited to only 25, the participants are advised to register well in advance of the scheduled dates.

Important Dates

Last date for registration: 02-12-2013.

Venue

Seminar Hall
Mechanical Engineering Department
J N T U H College of Engineering,
Kukatpally, Hyderabad - 500 085

Advisory committee

Dr.T.Kishen Kumar Reddy
Dr.K.Vijaya Kumar Reddy
Dr.A.V.Sita Rama Raju
Dr.K.Eshwara Prasad
Dr.A.Chenna Kesava Reddy
Dr.B.Anjaneya Prasad
Dr.A.V.S.S.K.S.Gupta
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Dr. M. Indira Rani
Dr. A. Aruna Kumari
Dr. P. Bhramara
Sri P. Prasanna

Registration Form

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Name (in Block letters) : _____

Highest Qualification: _____

Designation: _____

Gender (M/F): _____

Organization: _____

Address: _____

Email ID: _____

Mobile No: _____

Mode of payment : Cash / D.D
D.D.No., Date, amount and Bank details:

Date:

Signature of participant