



# SHORT COURSE INTRODUCTION TO APPLIED RELIABILITY

20-22 November, 2017



FAILURE ANALYSIS CENTER

YOUR PARTNER IN PREVENTING FAILURES



## INTRODUCTION

Reliability is defined as probability of a device performing its intended purpose adequately under the operating conditions for its designed period.

Reliability Engineering is a multi-disciplinary field. It involves techniques and procedures to analyze the performance of the equipment, and the reasons for its failures and downtime.

Reliability has broad and important impact across the public and private industry.

This short course is intended to provide a practical understanding of the topic based upon solid field experience in conjunction with theoretical knowledge of concepts.

Take away from this short course will provide practical approach on how to apply engineering knowledge with specialized techniques to prevent failures.

## WHO SHOULD ATTEND

- ♦ Managers/Senior Managers involved in reverse engineering and Indigenization.
- ♦ Engineers/Managers working in the field dealing with manufacturing.
- ♦ Engineers/Managers working in the fields encountering quality assurance and standardization issues.
- ♦ Engineers dealing with structural design, production and maintenance problems.
- ♦ Researchers & students working in the field of engineering structures, design and safety.

## REGISTRATION

Nominations from public/private organizations may be sent along with course registration form which may be downloaded from our official webpage.  
[www.ist.edu.pk/fac](http://www.ist.edu.pk/fac)

Self sponsored participant may send their nomination directly to FAC or may register on spot at the registration desk.

### Professionals:

Rs. 25,000/- per person.

### Post Grad. Students:

Rs. 10,000/- per student. Discount is available on registration of five or more participants. Course fee includes cost of Training Material, Lunch, Tea and Light Refreshment.

## TOPICS

- ♦ Manifesting defects in hours that otherwise appears years after field use and improve products reliability.
- ♦ Analyzing reliability for "one sample", "two sample" and analysis of variation.
- ♦ Design for reliability and reliability maintenance
- ♦ Six Sigma and Taguchi method of manufacturing.

## RESOURCE PERSONS

**Dr. Fahim Hashmi**  
PhD (Materials Sci. & Engg.)  
Founding Director of FAC.

**Prof. Dr. Wilayat Hussain**  
PhD (Metallurgy), UConn.

**Prof. Tariq Mahmood**  
Department of R&D, IST.