

ORGANIZING INSTITUTE

Indian Institute of Technology, Kharagpur (IIT KGP) is set in a sylvan surrounding, only 120 kms away from the hustle bustle of the city of Kolkata. IIT Kharagpur is the largest technical institution in India and ranked as the best institution in the country imparting technical education and research.

The Reliability Engineering Centre came into existence in 1983 with financial support of more than Rs. 10 million from the Ministry of Human Resource Development, Government of India. M.Tech. Course in Reliability Engineering has started from academic year 1982-83 and is the first postgraduate program on Reliability Engineering in India. Since then, the Centre is running academic programs in M.Tech., MS & Ph.D. The centre also offers certain electives to the final year undergraduate students of the Institute.

The M.Tech. course offered by this Institute has been rated as the best in the country by many industries and R&D establishments. Besides, the centre is actively engaged in sponsored research and offers consultancy services to various public and private organizations.

ADDRESS FOR COMMUNICATION

Principal Coordinator

Dr. V.N.A. Naikan

Professor & Head

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Course Co-coordinator

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Sr. Lecturer

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MHRD/AICTE APPROVED SHORT TERM COURSE

On

Reliability Engineering and Life Testing of Engineering Systems

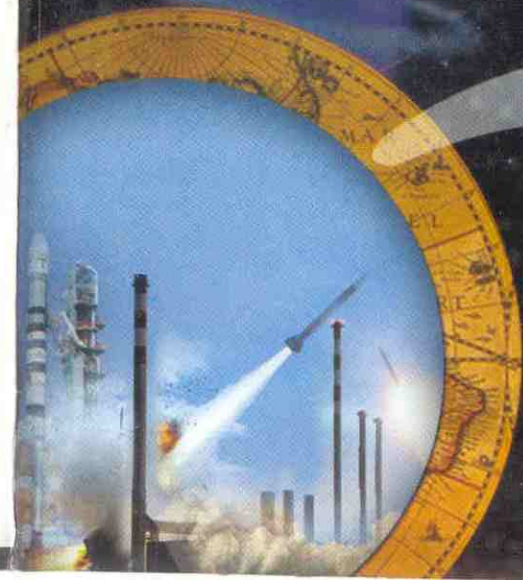
(Under Staff Development Programme)

(01-14 February, 2010)

Venue : IIT Kharagpur

Organized by

RELIABILITY ENGINEERING CENTRE
INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR - 721302, W.B.



COURSE OVERVIEW

The aim of this course is to impart the basic concepts of Reliability Engineering and Life testing of engineering systems to the postgraduate and senior undergraduate teachers of the engineering colleges.

Engineering systems are becoming more and more complex due to the application of automation, embedded technology, software hardware interfaces, application of high technology and many other features. Reliability assurance is essential to achieve the desired performance of products in terms of safety, environment, cost and uninterrupted service. Industrial organizations as well as the academic and R&D institutions are now getting ready to face the challenges of reliability assurance for achieving the desired performance of products. The course will provide a clear understanding of the basic concepts of reliability engineering and other related topics.

COURSE OBJECTIVES

- ✓ To educate the participants about various concepts, theories and models of reliability engineering.
- ✓ To train and make the participants aware of reliability concerns for engineering systems.
- ✓ To provide the state-of-the-art knowledge in the area of reliability engineering.
- ✓ To help the participants in formalizing a course on reliability engineering, which can be offered by them in their institutions.

COURSE CONTENTS

This course will provide the participants an understanding of many topics including:

- ✓ Basic concepts of Reliability Engineering
- ✓ Reliability Prediction
- ✓ Statistical methods in Reliability Engineering
- ✓ Reliability modeling and analysis
- ✓ Maintainability & maintenance engineering
- ✓ Reliability Estimation & Data Analysis
 - Parametric methods
 - Non-parametric methods
- ✓ Reliability testing
 - Accelerated Life Testing (ALT)
 - Highly Accelerated Life Testing (HALT)
- ✓ Reliability Design

NUMBER OF PARTICIPANTS

Up to 50 (fifty only)

ELIGIBILITY TO PARTICIPATE

- Faculty from AICTE approved colleges, institutes and universities are eligible to participate in this course.
- Approval letter from concerned authority is mandatory
- PG qualification is preferred

HOW TO APPLY

Interested participants may fill-up the application form (attached along with this brochure) and send it to the course Coordinator or Co-Coordinator latest by 31st December, 2009. Application form can be xeroxed as per requirements.

REGISTRATION, BOARDING, LODGING AND TA

There is no registration fee for the faculty/teachers of AICTE approved colleges/institutions. Arrangements are made in advance for accommodation in Guest Houses of the Institute (from one day before of the course) on sharing basis. TA for participants is limited to a maximum of AC-3 tier by shortest route.

SPONSORED CANDIDATES

Participants from Non-AICTE Institute/Organization can participate in this course by paying Rs.24,000/- in advance with registration form towards course fees excluding boarding and lodging.

IMPORTANT DATES

- ♦ Last date for receiving application: 31st December, 2009
- ♦ Intimation to participants : 10th January, 2010
- ♦ Course Dates : 01-14 February, 2010

COURSE VENUE

RELIABILITY ENGINEERING CENTRE
INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR-721302, WEST BENGAL

APPLICATION FORM
MHRD/AICTE SPONSORED
Short Term Course
(Under Staff Development Programme)
On
RELIABILITY ENGINEERING AND
LIFE TESTING OF ENGINEERING SYSTEMS

(February 01-14, 2010)

1. Name : _____
2. Sex (Male/Female) : _____
3. Highest Academic Qualification: _____
4. Designation : _____
5. Name of the Institution/Organization: _____
6. Address: _____
7. Tel: _____; Fax: _____
E-mail: _____
Mob: _____
8. Is your college recognized by AICTE? Y/N
9. Educational Qualifications:

Degree	University	Specialization	Year

Signature of candidate

10. Authority : Certified that Mr/Ms./Dr. _____

is deputed to attend the course on **Reliability Engineering and Life Testing of Engineering Systems** to be held at Indian Institute of Technology Kharagpur and organized by Reliability Engineering Centre during 01-14 February, 2010.

Signature : _____
Name : _____
Designation : _____

Seal: