

SPONSORSHIP CERTIFICATE

(Required for teachers from AICTE recognized institutions only)

Certified that Dr./Mr/Ms
is a faculty of our institute and is hereby sponsored for attending the QIP short term course on **“Tribology in Design ”** to be conducted at IIT Madras from 7-12 November 2016.

Signature of Sponsoring Authority
(with date and seal)

Duly filled application forms should be sent to:

Dr. P. Ramkumar
Assistant Professor
Machine Design Section
Mechanical Engineering Department
Indian Institute of Technology Madras
Chennai- 600036

Email : ramkuamr@iitm.ac.in
Fax : 044-2257-4652
Phone : 044-2257-4684

Note: Please make photocopies of Registration form if more number of copies is required.

TRAVEL

The course participants are eligible for 3-Tier AC train fare by the shortest route.

BOARDING AND LODGING

Boarding and lodging facilities will be provided at the Taramani Guest House, IIT Madras for participants from AICTE approved institutions on **twin sharing** basis.
Kindly note, family accommodation is not available.

VENUE FOR CLASSES

Classes will be held in the Machine Design Section (MDS), Department of Mechanical Engineering, IIT Madras.

RESOURCE FACULTY

The resource faculty includes experts from IIT Madras and from other reputed institutions / organizations.

ELIGIBILITY

Faculty of Mechanical Engineering from AICTE approved colleges are eligible to apply. Eligible teachers are requested to send the **filled in application** and **sponsorship certificate** to the coordinator before the last date.

IMPORTANT DATES

Last date of receipt for applications: **03-10-2016**
Intimation of selection: **10-10-2016**
(through email / FAX)

Candidates have to confirm their acceptance upon intimation of selection to tribologyindesign@gmail.com

AICTE QIP SHORT TERM TRAINING PROGRAMME

ON

Tribology in Design

7-12 November 2016



Sponsored by

All India Council for Technical Education

Coordinators

Dr. P. Ramkumar
Dr. A. S. Sekhar

Organized by



Department of Mechanical Engineering
Indian Institute of Technology Madras
Chennai- 600 036

OBJECTIVES

The study of friction, wear, and lubrication is of vast practical importance, because the functioning of many mechanical, electro-mechanical and biological systems depends on the appropriate friction and wear magnitudes. The understanding of tribological working principles and their appropriate application is an essential requirement for optimum design, operation and maintenance of tribo-systems. The tribological expertise helps to improve service life, safety and reliability of interacting machine components and systems, consequences substantial economic benefits.

This course is aimed at providing the necessary concepts, knowledge, and skills in engineering Tribology. Thus useful in design and maintenance of machine components and products. The main highlight of the course is to cover fundamentals and applications of tribology including the latest developments in the field along industrial related case studies. This short term course involves invited lectures by distinguished experts from IITs and reputed industries and R&Ds in the field of Industrial Tribology and its applications

COURSE OUTLINE

The short term course will cover the following topics:

- Theories on Friction, Wear and Lubrication
- Surface Engineering and Contact mechanics
- Corrosion and Coatings
- Journal and Rolling Element Bearings
- Gear Tribology
- Rotor-Bearing System
- Condition Monitoring
- Tribo-Testings
- Special topics: Engine Tribology, Space Tribology, and Bio/ Nano Tribology

REGISTRATION

There is **no course fee** for the participants from AICTE approved engineering colleges. However, the short listed candidates after hearing from the coordinator, need to pay a **refundable deposit** of Rs.500/-. This amount shall be paid through a **demand draft** drawn in favour of **Registrar, IIT Madras**, payable at Chennai. This deposit will be refunded to the course participants at the end of the course.

COORDINATORS

Dr. P. Ramkumar & Prof. A. S. Sekhar
Machine Design Section
Mechanical Engineering Department
Indian Institute of Technology Madras
Chennai- 600036

ABOUT THE DEPARTMENT & LABORATORY

The Department of Mechanical Engineering is one of the largest in IIT Madras. It comprises of three major streams namely Manufacturing, Design and Thermal. It has excellent facilities for carrying out theoretical and experimental research.

The Machine Design Section comes under the Design Stream. Major areas of current research of this laboratory are focused on Advanced Materials, Fatigue, Fracture, Machine Dynamics & Acoustics, Tribology, Computer Aided Design and Non-Destructive Testing.

APPLICATION FORM AICTE QIP SHORT TERM TRAINING PROGRAMME

ON

Tribology in Design

(7-12 November 2016)

(Filled Application should reach on or before 26 Sept 2016)
For Additional copies, Please photocopy this form)

Name: _____

Designation: _____

Department: _____

Organization: _____

Educational Qualification : _____

Experience: _____

Mailing Address: _____

email: _____

(Needed for selection intimation)

Tel. Phone: _____

Mobile: _____

Date: _____ Signature of applicant