

Completed registration form should be sent to the following address:

Prof. Ambarish Kunwar
Course Coordinator

Department of Biosciences and Bioengineering,
IIT Bombay, Powai, Mumbai – 400 076.

Phone: (022) 2576 7799

Fax: (022) 2572 3480

Email: akunwar [at] iitb.ac.in

Important Dates

Last date for receipt of registration: **Apr 30, 2017**

Notification of acceptance: **May 10, 2017**

Course dates: **Jun 12-16, 2017**

Notes:

- Incomplete application forms will not be entertained.
- For multiple registrations, copy the form or type in the given format.
- Registration form can be also downloaded from the following course website

<http://www.bio.iitb.ac.in/~akunwar/safety2017/>

Venue for Course:

Course will be held at Seminar Hall, Van Vihar Guest House, IIT Bombay.

Date & Time of Registration:

Jun 12, 2017, 9.00 AM at course venue, IIT Bombay.

REGISTRATION

There is no registration fee for the course. All short-listed candidates are required to confirm their participation by sending a **Demand Draft of Rs. 2000/- in the name of "Registrar IIT Bombay"**. The above amount will be refunded to the participant if he / she attends the course. In case a participant does not attend the course, the above amount will be forfeited.

Candidates should complete either enclosed registration form or registration form downloaded from website and prepare one page write-up stating the reasons to attend this course. Candidates should send the registration form and one page write-up by mail, email or fax to the Coordinator. Confirmation of eligible candidates will be on a first come first served basis up to a maximum of 60 candidates.

The completed registration forms should be received by the Coordinator latest by **Apr 30, 2017**.

For any further information regarding QIP programs at IIT Bombay, please contact:

Professor-In-Charge, CE & QIP,
IIT Bombay, Powai, Mumbai-400 076
Phone: (022) 25767006
Email: qip@iitb.ac.in
For further details: www.iitb.ac.in/~cep



Quality Improvement Programme (QIP)

Short Term Course

Laboratory and Ergonomic Safety for Engineers

June 12 - 16, 2017

Course Coordinator

Prof. Ambarish Kunwar

Department of Biosciences and Bioengineering

Office of
Continuing Education &
Quality Improvement Programme
Indian Institute of Technology Bombay
Powai, Mumbai - 400 076

Introduction

Research and teaching laboratories in educational institutions deal with activities covering a wide range of subjects. The experiments conducted in laboratories and research projects undertaken involves use of different types of hazardous chemicals and chemicals reactions, use of infectious biological agents , toxic and flammable gases, radioactive isotopes, machineries and equipment, cryogenes, high voltage experiments and use of high power lasers to mention a few. Inherent hazards are associated with these activities which can cause serious harm to people involved.

In addition to above exogenous hazards there are many factors related to the physical demand and nature of the work and the workplace itself, which are encountered over a prolonged period of time, and pose a serious ergonomic hazard to the persons concerned. These factors acting slowly over a few weeks to months can give rise to various musculoskeletal disorders (MSDs) in the form of low back pain, neck pain, foot pain and so on. These MSDs may result from repeated overuse or injury to muscles, tendons and ligaments due to faulty body posture and inaccurate technique of performing a movement.

Broad Objectives

The short term course is intended to create awareness of the potential hazards and risks involved among faculty members of engineering colleges who are involved in laboratory activities. This course further aims to train faculty members of engineering colleges to assume healthy and safe work postures and environment, an awareness and knowledge about ergonomic safety to avoid various musculoskeletal disorders. Thus, this course will help faculty members to familiarize students with the safe work practices and importance of safe behaviors.

Course Contents

Chemical Safety, Bio Safety, Fire Safety, Laser Safety, Radiation Safety, Gas Cylinder Safety, Electrical Safety, Machine safety, Cryogenic safety and Ergonomic Safety.

Teaching Faculty

The core teaching faculty will be from the Department of Biosciences and Bioengineering who have been associated with various safety related matters. Subject experts from other departments at IIT Bombay as well as other institutes will be invited for special lectures/panel-discussion/tutorials.

Eligibility

Faculty members of degree level engineering colleges recognized by AICTE, are eligible to attend the course. Faculty member should be involved in teaching/research laboratory.

Lecture Notes

Hard copies of the lecture notes/presentations will be made available to participants at the end of lecture/presentation.

Course Evaluation

Successful participants would be awarded 'Course Completion Certificate'.

Transport, Boarding & Lodging

Participants are entitled for Second Class (Sleeper Class) or III AC railway fare to and fro by the shortest route from college to IIT Bombay. All participants will be given auto fare from Kanjurmarg/ Andheri to IIT on the dates of arrival and departure. Local participants will be paid second class railway fare or BEST Bus fare.

Boarding and lodging will also be provided free of cost. Accommodation will be provided in the students Hostels. Since accommodation is limited, family members of the participants cannot be accommodated.

QIP Short Term Course on

Laboratory and Ergonomic Safety for Engineers

June 12 - 16, 2017

Registration Form

Name* (in block letters): (Mr/Mrs/Ms) _____

Designation*: _____

Organization*: _____

Mailing Address*: _____

Telephone: _____ Mobile*: _____

Fax: _____

Email*: _____

Educational Qualifications*: _____

Discipline/Specialization*: _____

Accommodation Required*: YES / NO

Whether teaching/taught any laboratory course*: YES/NO

Name of course (only if answer is YES)*: _____

Signature of Applicant*:

Sponsorship & signature of Head of the College / Institute (with date & seal)*.

(IMPORTANT: BY SIGNING ABOVE HEAD OF THE COLLEGE/INSTITUTE CERTIFIES THAT APPLICANT IS A FACULTY MEMBER OF DEGREE LEVEL ENGINEERING COLLEGE RECOGNIZED BY AICTE).

* Required fields otherwise application will be rejected.