

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: **May 01, 2016**

Notification of acceptance: **May 15, 2016**

Course dates: **Jun 13-17, 2016**

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/mcs2016/>

Venue for Course:

Course will be held at the Victor Menezes Convention Centre, IIT Bombay.

Date & Time of Registration:

Jun 6, 2016, 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. 1,000/- 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 the enclosed registration form, and send it 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 30 candidates.

The completed registration forms should be received by the Coordinator latest by **May 15, 2016**.

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

Monte-Carlo Simulation of Complex Biological Systems

June 13 - 17, 2016

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

Recent advances in many tools and techniques, have led to both molecular and system level information for various complex biological systems and processes. There is a great need for computational methods that can elucidate the cellular and molecular mechanisms of complex biological processes. Monte-Carlo simulation is a powerful tool that can be utilized to carry out in-silico studies of biological problems. Monte-Carlo models can provide detailed insight into workings of complex biological systems. These models can be validated using synergistic experiments and also have great predictive capability.

Broad Objectives

The short term course is intended to train the faculty members of engineering colleges for developing Monte-Carlo models. The course content assumes that faculty members have an exposure to Physics and Mathematics at 10+2 level. This short term course aims to cover basics of Monte-Carlo Simulations along with several examples of its applications.

Course Contents

This short-term course is divided into lectures and lab sessions. While lectures will cover the theory and techniques related to Monte-Carlo simulations, the lab sessions are aimed at providing hands-on experience of Monte-Carlo simulations using the examples discussed in the lectures.

Teaching Faculty

Prof. Ambarish Kunwar will be the main instructor of this course. Subject experts from other departments at IIT Bombay as well as other institutes will be invited for special lectures/lab-sessions.

Eligibility

Faculty members of degree-level engineering colleges recognized by AICTE, working in the areas such as biosciences/biomedical engineering / bio-chemical engineering/ biotechnology/bioinformatics / systems biology, are eligible to attend the course. The applicant should have knowledge of computer programming. It is mandatory for applicants to provide a short write-up stating the reasons to attend this course.

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

Monte-Carlo Simulation of Complex Biological Systems

June 13 - 17, 2016

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

Exposure to 10+2 level Physics/Maths*: YES/NO

Knowledge of computer programming*: YES/NO

Computer Languages Known*: _____

Signature of Applicant*:

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

(Can also be attached separately along with the registration form).

* Required fields