

**Staff Development Programme**  
**on**  
**SELECTED TOPICS IN SOFTWARE ENGINEERING**

March 18-24, 2010

Sponsored by

**Ministry of HRD**  
**ALL INDIA COUNCIL FOR**  
**TECHNICAL EDUCATION**  
**Govt. of India, New Delhi**



Course Coordinator

**Dr. Rajib Mall**

E-mail: [rajib@cse.iitkgp.ernet.in](mailto:rajib@cse.iitkgp.ernet.in)

Phone: (03222) 283482 (O) 283483 (R)

**Dept. of Computer Science & Engg.**  
**Indian Institute of Technology**  
**Kharagpur – 721 302 (W.B.)**

## Overview

The course will emphasize on some important skills necessary to develop large software products. The course would address requirements specification, process models, design, testing, and a few current topics, with a special emphasis on the roles of abstraction and decomposition and their use through out the software life cycle. Considering that modern software products are large, emphasis would be given to architectural and detailed design. Both procedural and object-oriented design would be discussed. UML and Unified process, that have gained wide acceptance would be given due importance with exposure to usage of CASE tools. Testing, quality assurance, and software reliability would be discussed with adequate emphasis.

## Course Contents

- Life Cycle Models
- Software Project Management
- Requirement Analysis & Specification
- Software Architectural Design
- Function Oriented Design
- Object Modelling using UML
- Unified Process & OO Development
- CASE Tools for OO Development
- User Interface Design
- Testing Procedural & OO Programs
- Reliability & Quality Management
- Software Reuse
- Client-Server Development

## Faculty

The faculty consists of experts in the area of Software Engineering from IIT Kharagpur, along with the experts from industry, R & D organizations and reputed institutions.

## Venue

Indian Institute of Technology Kharagpur, West Bengal.

## Eligibility

Sponsored teachers of Engineering Colleges/Universities affiliated to AICTE are eligible to apply.

## Registration

About 50 participants would be selected from AICTE recognized Engineering Colleges / Universities. There is **no registration fee** as the programme is sponsored by MHRD, Govt. of India, New Delhi. The participants would be reimbursed AC III class to and fro railway fare via shortest route.

## Registration Form

### STAFF DEVELOPMENT PROGRAMME ON SELECTED TOPICS IN SOFTWARE ENGINEERING March 18-24, 2010

1. Name:
2. Designation:
3. Address:

E-mail:

Telephone:

Mobile:

4. Date of Birth:
5. Gender: Male/Female
6. Educational Qualifications:
7. Years of Experience:
8. Department Affiliated:
9. Specializations if any:
10. Is Accommodation Required? Yes/No

#### Declaration

The information provided is true to the best of my knowledge. If, selected, I agree to abide by the rules and regulations of the course and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Signature of Applicant with date

**Note: Scanned copy of the above form along with the employer certificate (both duly completed) can be mailed to [rajib@cse.iitkgp.ernet.in](mailto:rajib@cse.iitkgp.ernet.in). However, it is mandatory to submit hard copy of both through post, or bring personally on the first day of the course.**

## CERTIFICATE FROM THE EMPLOYER

**Dr/Mr/Mrs/Ms** \_\_\_\_\_ is an employee of our institute and is hereby permitted on duty leave to participate in the **Staff Development Programme on Selected Topics in Software Engineering.**

Recommended and Forwarded

Place:

Date:

Signature with seal of the Head of the Institution

**(Form to be sent to the Course Coordinator)**

### Address of Course Coordinator

**Dr. Rajib Mall**

Professor

Dept. of Computer Science & Engg.

Indian Institute of Technology Kharagpur

Kharagpur – 721302 (W.B.)

Phone: (03222) 283482 (O), 283483 (R), 09434009934 (M)

E-mail: rajib@cse.iitkgp.ernet.in

### Boarding and Lodging

The programme is residential. Participants will be provided accommodation in suitable guest houses/hostels in Kharagpur on twin sharing basis. Local participants would not be provided any accommodation. Food arrangements for the participants will be made.

### Application and Enquiries

Application in the prescribed form (included with this brochure) along with the sponsorship certificate should reach the Course Coordinator, through proper channel by **1<sup>st</sup> February 2010**. Advance copy of the application can be sent directly, if so desired. Xerox copies of the form may also be used. Please write your name in CAPITAL LETTERS and ensure that it is correctly spelled in the registration form. **The name as specified in the registration form will appear in the final course certificate.** Selected candidates will be informed through the institute website ([www.iitkgp.ernet.in](http://www.iitkgp.ernet.in)) on or before **5<sup>th</sup> March 2010**. Also an email communication along with the schedule will be sent to the participants. All enquires are to be addressed to the Course Coordinator.