

Copies of the registration form can be made, if necessary. Please send the filled in form to the Coordinator on or before **11<sup>th</sup> May 2009.**

The details of the course & the form can also be downloaded from our institute website: <http://www.nitrkl.ac.in>

### ***CORRESPONDENCE***

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### **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

Department of Computer Science & Engineering, NIT, Rourkela was established in 1982. Since its inception, the Department is under dynamic progress and is able to establish the reputation for imparting quality education both at undergraduate and graduate programmes. The department has well equipped modern laboratories such as Software Engineering, Information Security & Data Communication, Image Processing & Cluster Computing and Advanced Database Engineering Labs for pursuing research keeping in view of the technological advancement.



## **AICTE Sponsored Staff Development Programme On Advanced Software Engineering Techniques & Their Applications**

8<sup>th</sup> – 21<sup>st</sup> June 2009

Coordinators  
Dr. Durga Prasad Mohapatra  
Pankaj Kumar Sa



***Department of Computer  
Science & Engg .  
National Institute of Technology***

Rourkela-769 008, Orissa  
<http://www.nitrkl.ac.in>

### **About the Course**

Good quality software can only be developed if the engineers will know the various software engineering techniques. This course aims at covering the important software engineering principles needed for developing good quality software. The course would enable the participants to learn the skills necessary to develop large software products. An important part of this skill would be designing software. The design techniques - SA/SD, UML and Unified process - would enable the participants to assimilate the role of abstraction and decomposition in handling design complexity. Besides, the participants would learn how to carry out proper specification of a problem, user interface design, testing, project management, software maintenance, software reuse etc. The course will cover the practical applications of software engineering principles through many laboratory classes. The course will help to provide foundation for designing large object-oriented S/W using "Rational Rose", a CASE tool for object-oriented S/W design. Also the participants would learn how to generate test cases for object-oriented software using various testing tools such as "Test complete" etc.

### **Course Contents**

- Introduction to Software

- Software Design principles
- Function-Oriented Design
- Object modelling using UML
- User Interface Design
- Unified process & Object-Oriented Software Development
- Software Testing
- Software project management
- Computer Aided Software Engineering
- Software Maintenance
- Software Reuse
- Object-Oriented Software Engineering
- Object-Oriented Database
- Petri nets
- Component based S/W Development
- Fault Tolerant Systems

### **Resource Persons**

The course will be offered by faculty members of NIT, Rourkela and other sister NITs, experts from IIT Kharagpur and experts from industry.

### **Accommodation**

Suitable accommodation will be provided to outstation candidates in the guest house on prior request.

### **Registration & Fee Particulars**

The course is free for faculty members of AICTE recognized colleges. Applications in prescribed format must reach the coordinator through proper channel on or before **11<sup>th</sup> May 2009**. The participants from AICTE recognized colleges will be reimbursed 3<sup>rd</sup> A/C to and fro railway fares through the shortest route. Besides, the participants will be provided free

### **AICTE Sponsored**

### **Staff Development Programme On Advanced Software Engineering Techniques**

### **& Their Applications**

8<sup>th</sup> - 21<sup>st</sup> June 2009

### **Registration Form**

1. Name:  
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2. Designation:  
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3. Address:.....  
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Phone:  
.....Mob.....  
Fax: .....  
E-Mail: .....
4. Date of Birth:
5. Qualification:
6. Years of Experience:
7. Programming Languages  
Known:.....  
...
8. Specializations if any:
9. Accommodation Required: YES/NO