

Contact Details

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Registration Fee

(a) Participants from AICTE recognized colleges

No registration fee will be charged from the teachers of AICTE recognized Engineering Colleges. However, a caution fee of Rs. 500/- (Rupees five hundred only) is to be paid along with the application form. The caution money is refundable to (a) applicants who are not selected (b) selected applicants who attend the course.

TA/DA will be reimbursed as per AICTE rules. (Up to 3-Tier AC Rail fare by shortest route)

(b) Participants from other organisations

Participants from industry, Government Departments etc., have to pay Rs. 8000/- per candidate as registration fee, which is to be sent along with the application form.

Mode of Payment

All payments should be made by a crossed Demand Draft in favour of "CEP-STC, IIT, Kharagpur" payable at Kharagpur, West Bengal.

Important Dates

(a) Participants from AICTE recognized colleges

Submission of application form with sponsorship certificate and Caution Fee: **Sept 22, 2009**
Intimation to selected candidates: **Oct. 7, 2009**

(b) Participants from other organizations

Submission of application form with sponsorship certificate and Course Fee: **Oct. 15, 2009**

Course Web-Site

<http://softcomputing.tripod.com/ciisem.html>

QIP Short Term Course

On

Computational Intelligence in Infrastructure Systems Engineering and Management

November 15-21, 2009



Co-ordinators

Dr. K. Sudhakar Reddy
Dr. Sudhirkumar Barai

Organized by

Ranbir and Chitra Gupta School of
Infrastructure Design and Management
and
Department of Civil Engineering
Indian Institute of Technology
Kharagpur 721 302, India

About the Course

In recent times Computational Intelligence (CI) has shown tremendous potential towards fundamental and applied research. CI provides a platform for a number of powerful computational paradigms, either separately or synergistically, to solve problems that confront solutions using traditional techniques. Domain of CI includes Fuzzy Set Theory and Fuzzy Logic (FL), Neural Networks (NN), Reinforcement Learning (RL), and Genetic Algorithms (GAs). CI has been successfully applied in various fields of Infrastructure Engineering and Management. The proposed QIP Short term course is related to the application of CI in Infrastructure engineering and Management

The proposed One Week QIP short term course will cover- Introduction to Computational Intelligence and related techniques, interactions between different CI techniques, and application of CI. Application of CI in the following areas will be discussed.

- Structural engineering - Structural analysis, design, diagnostics and control problems, Structural health monitoring, Structural material behavior modeling etc.
- Geo-technical engineering - Liquefaction potential assessment, Slope stability, Piles design, etc.
- Transportation engineering - Bridge management systems, Pavement management systems, Pavement behavior models, intelligent transport systems, Railways maintenance etc.
- Construction automation- Automated inspection, Risk analysis and decision making, Supply chain management, Construction process reengineering, Procurement management etc.
- Environment management, and Safety management etc.
- Water Resources Systems etc.
- Geographic Information Systems (GIS), Global Positioning Systems, Remote Sensing etc.

Each lecture session will be followed by an interactive session on the subject matter. There will be demonstration of a few CI tools.

Resource Persons

The teaching faculty will constitute experts from different disciplines of IIT Kharagpur and guest speakers from other reputed organizations.

Venue For Lectures

Seminar Hall of the Civil Engineering Department, IIT, Kharagpur.

Lecture Notes

Printed volume of lecture notes will be made available to the participants.

Eligibility

Teachers from AICTE recognized engineering colleges and practicing engineers from private and government organizations, scientists/ engineers from R&D establishments are eligible to apply for participation.

Sponsorship Certificate

Certified that Dr./Mr./Ms. is being sponsored/forwarded hereby for attending the course on "Computational Intelligence in Infrastructure Systems Engineering and Management" to be conducted at IIT Kharagpur during November 15-21, 2009.

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(Signature of Sponsoring/forwarding Authority with date and seal)

Boarding and Lodging

Arrangement will be made to accommodate all the participants in the guesthouse at IIT Kharagpur on twin sharing basis. The charges for accommodation per person (twin sharing basis) will be as per prevailing norms.

QIP Short Term Course On Computational Intelligence in Infrastructure Systems Engineering and Management (November 15-21, 2009)

Application Form (Last date for submission: **Sept. 22, 2009**)

Name: _____

Designation: _____

Organization: _____

Mailing Address: _____

Mobile Number: _____

E-mail: _____

Educational Qualification: _____

Professional Experience (Years): _____

Nature of Experience: _____

Please tick the appropriate box below:

☐ From AICTE Recognized College

☐ From Other organisations

DD Details: Amount (in Rs.) _____

DD Number _____ Date _____

Date : Signature of applicant

Please enclose sponsorship certificate along with this form

For Additional entries, please photocopy/type this form