

ABOUT ROORKEE

Roorkee is located at the foothills of Himalayas in the uttarakhand state. The railway station is on the main line of northern railways having direct link to Delhi, Mumbai, Kolkata, Amritsar Jodhpur and Ganganagar. The place is also within an easy reach from Delhi, by road (180 Km) and is located on Delhi Hardwar and Delhi Dehradun bus routes. Roorkee is ideally located near several tourist places Dehradun (72 Km), Mussoorie (100 Km), Hardwar (32 Km) and Rishikesh (52 Km).

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

It is one of the oldest technical institute of India. A very vibrant and productive institute, IIT Roorkee has nurtured the glorious traditions of excellence in engineering education and research, knowledge extension and nation building throughout its long history of more than 160 years. The institute offers a large number of academic and research programmes in diverse disciplines of science and technology and management. It is endowed with world class laboratories, academic and research facilities and a modern library. The serene and green campus provides an enchanting and enticing environment to knowledge seekers and parishioners.

CONTINUING EDUCATION CENTER

It is a pioneering centre in the area of continuing education in the country. It has completed more than 50 years of service and has played a very important role in the promotion of knowledge upgradation activity in our country by organizing refresher/specialist courses for in-service technical and professional person from various Govt./Semi Govt. organizations, public and private undertakings, research institutions and

Industries. The Centre conducts about 60 to 70 short term training programs in Continuing Education every year in various disciplines of management, engineering, science and technology in which the professionals are trained from all parts of the country as well as from the neighboring countries. The Centre is fully equipped with the facility of conference hall, accommodation, dining and recreation. Courses organized by this Centre are innovative, accessible and stimulating and address to the current needs of the professionals. Centre organizes the courses in the beautiful campus of the Institute and also outside the Institute in consultancy as well as in sponsored mode that respond to client's continuing professional development needs.

COURSE COORDINATORS

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DST SPONSORED SHORT TERM COURSE ON

NATURE INSPIRED OPTIMIZATION ALGORITHMS : RECENT TRENDS, THEORY AND APPLICATIONS

JUNE 21 - 25, 2010



AT

**CONTINUING EDUCATION CENTRE
INDIAN INSTITUTE OF TECHNOLOGY
ROORKEE - 247667 (UTTARAKHAND)**

Phone : (01332) 285227 & 279503

Fax : 01332 273560, 285545

Email : contd@iitr.ernet.in

OBJECTIVES OF THE COURSE

- To introduce some recent and popular Nature Inspired Algorithms (NIA) to the participants.
- To provide various real life examples (engineering design, management etc.) where NIA can be applied and to discuss the open questions in the field of NIA.
- To provide hands-on training on computer to the participants so that they are able to develop their own programs and learn the use of existing software.

LIKELY TOPICS TO BE COVERED

- Conventional Optimization Techniques
- Genetic Algorithms
- Particle Swarm Optimization
- Differential Evolution
- Adaptive Algorithms
- Software optimization
- Multi-objective Optimization Problems
- Engineering Applications

INVITED SPEAKERS

External Experts

Prof P.K. Kapur	Delhi University
Prof B.V. Babu	BITS Pilani
Dr. P.C. Jha	Delhi University
Dr. B.K. Panigrahi	IIT Delhi
Dr. Sabat Samrat	University of Hyderabad
Dr. J.C. Bansal	IIIT Gwalior

Internal Experts

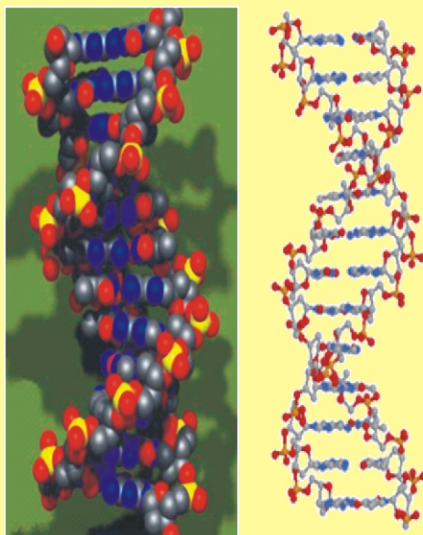
Dr. Kusum Deep	IIT Roorkee
Dr. Millie Pant	IIT Roorkee

ELIGIBILITY OF PARTICIPANTS

Young University/College Teachers and Research Scholars possessing first division in the highest preceding degree and fulfilling the following criteria are eligible to apply.

Educational qualification: Bachelor's degree in Engineering or Master's degree in Science or equivalent. Preference will be given to those who are PhD or who are pursuing PhD.

Age: preferably below 35 (relaxed up to 5 years for SC/ST/OBC, physically handicapped (PH) and women candidates)



COURSE REGISTRATION

TA (up to AC 3-tier) and local hospitality along with the accommodation will be provided to the participants. A token registration fee will be charged covering the expenses of the kit including course material as follows:

Faculty:	Rs 1,000/-
Research Scholars :	Rs 500/-

The application form duly signed by Head of Institute/ Director/ Principal and accompanied with the draft drawn in favor of Head, CEC and payable at Roorkee should be sent to the following address:

Head
Continuing Education Center
Indian Institute of Technology Roorkee
Roorkee 247 667 (Uttarakhand)

REGISTRATION FORM

1. Name : Dr./Ms./Mr.....
(In Block Letters)
2. Highest Degree:.....
3. PhD: (completed/ pursuing).....
4. Age:.....
5. Gender: (Male/ Female).....
6. Category: (SC/ST/ OBC/ PH)
7. Designation:.....
8. Institute:.....
9. Specialization:.....
10. Corresponding address :
(Including name of state and pin code).....
.....
.....
11. Email :.....
12. Phone (Mob.).....
13. Fax :.....

Date: _____ Signature of applicant

Recommended

(Signature of Head of Institute) _____ Course Coordinator

NOTES:

- This application form should reach CEC office by 4/6/2010 duly forwarded by the supervisor/ head of the Institute.
- The selected participants will be informed by June 11, 2010.
- Please note that certificate will be awarded to participants who have 100% attendance in the course.