

### DECLARATION BY THE APPLICANT

The above mentioned information is true to the best of my knowledge and belief. I agree to abide by the rules and regulations governing the AICTE-MHRD Programme. I shall attend the course for the entire duration.

Place :

Date :

Signature of Applicant

### SPONSORSHIP CERTIFICATE

Mr./ Ms./ Dr. \_\_\_\_\_  
is an employee of our institution and sponsored to attend the AICTE-MHRD SDP course, if selected.

Place:

Date:

Signature and Seal of Sponsoring authority

### ADDRESS FOR CORRESPONDENCE

**Dr. S. P. Sivapirakasam / Dr. K.R. Balasubramanian**

Course Coordinator

Department of Mechanical Engineering  
National Institute of Technology  
Tiruchirappalli - 15.

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Fax: 0431 – 2500133

Email: spshivam@nitt.edu / krbala@nitt.edu

### ABOUT THE INSTITUTE

National Institute of Technology (Formerly known as REC) Tiruchirappalli campus is spread over a sprawling 800 acres plot of land situated in the heart of Tamil Nadu on the banks of river Cauvery. It was started as a joint and cooperative venture of Government of India and Government of Tamil Nadu during 1964 with a view to catering to the needs of man power in innovative technology for the country. Now it has become a premier Institution of National importance and is known for its high standards in teaching and research.

### ABOUT THE DEPARTMENT

Mechanical Engineering Department was established in the year 1964. Mechanical Engineering Department of NITT has had the reputation of being among the finest in the country and is dedicated towards the advancement of technology and science. The department offers a program in Mechanical Engineering at B.Tech. level, Thermal Power Engineering and Industrial Safety Engineering at the M.Tech. level and M.S (by Research) and Ph.D programme.



### AICTE - MHRD

Sponsored

Staff Development Programme on

### QUANTITATIVE RESEARCH TECHNIQUES FOR ENGINEERS AND RESEARCHERS

21<sup>st</sup> December 2009 to 2<sup>nd</sup> January 2010

Course Co-ordinators

Dr. S. P. Sivapirakasam

Dr. K. R. Balasubramanian



NIT, Trichy



AICTE, New Delhi

Organised by

DEPARTMENT OF MECHANICAL ENGINEERING  
NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI - 620 015

Web: [www.nitt.edu](http://www.nitt.edu)

## SCOPE AND OBJECTIVE OF THE PROGRAMME

Many research techniques are widely used by various researchers for solving the problems. The course aims to impart knowledge on advanced research techniques, modeling and simulation of scrutiny process using various softwares and algorithms. The course content is deliberately configured such that it will be useful for the faculty of engineering colleges, pursuing research work and would be highly benefited with the exposure of advances in research techniques. This induction training programme will be worthwhile for the engineering college teachers to intersperse the knowledge obtained from this programme to the student community. The course is planned with theory as well as hands on training on each optimization tool. The objectives of this induction training programme are to cover the following topics:

## COURSE CONTENT

- \* Artificial Neural Networks
- \* Genetic Algorithm
- \* Grey Relational Analysis
- \* Fuzzy Logic
- \* Design of Experiments
- \* MATLAB
- \* FEM
- \* CFD
- \* Advances in Instrumentation

## FACULTY

Lectures will be delivered by resource persons from reputed institutions, industries and R&D organizations.

## ELIGIBILITY

Faculty members from technical institutions approved by AICTE and individuals working in industry or R&D are eligible to attend the programme. However, applicants working in AICTE approved engineering colleges only are eligible for the TA, Boarding & Lodging and their registration fee will be refunded

## REGISTRATION FEE

Participants from academic institutions :Rs.300/-  
Participants from Industry, R&D Org. :Rs.1500/-

The registration fee must be paid by DD in favour of "The Director, NIT, Tiruchirappalli - 620015" and payable at SBI, NIT, Tiruchirappalli.

## ACCOMMODATION

Accommodation will be provided in the hostel.

## TA FOR PARTICIPANTS

TA subject to a maximum of 3-tier AC fare through shortest route will be paid to the participants. The original tickets should be enclosed in the claim form.

## IMPORTANT DATES

Last date for receiving application: 09.12.2009  
Intimation of selection (By email only): 10.12.2009

Additional registration forms may be photocopied / downloaded from the website.

## REGISTRATION FORM

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21<sup>st</sup> December 2009 - 2<sup>nd</sup> January 2010

1. Name :
2. Qualification :
3. Designation :
4. Gender : M / F
5. Department :
6. Organization :
7. Mailing Address:  
Phone :  
Email :
8. Details of Registration Fee  
Amount : DD No.:  
Date :  
Bank Name & Place: