

### About the Institute:

K. K. Wagh Institute of Engineering Education and Research, Nashik is approved by the All India Council of Technical Education (AICTE), New Delhi and Government of Maharashtra, and is affiliated to the Savitribai Phule Pune University. The institute is adjudged as Grade 'A' by Government of Maharashtra. NBA-AICTE, New Delhi has reaccredited five UG Courses. The institute has a picturesque campus of 23 acres, which includes a Polytechnic, Women's Polytechnic, hostels for boys and girls and a well-equipped gymnasium. The institute has developed state-of-the art laboratories for conducting the courses in Computer, E & TC, Electronics, Production, Civil, Mechanical, Chemical Engineering and Information Technology. The intake at undergraduate level is 840 (including 1<sup>st</sup> & 2<sup>nd</sup> shift) and 228 at Post Graduate Level. The institute also has Research center in four departments. It is located in Nashik city on the Nashik-Ozhar road at about 4 km from Nashik Central Bus Stand (CBS) and 10 km from Nashik Road Railway station.

### About the Department:

Production Engineering Department is one of the pioneering departments, which has produced several rankers at the Pune University Level. The Department is accredited by National Board of Accreditation (NBA), New Delhi. The department has well qualified, devoted and dedicated team of teaching faculty with a blend of experienced and young teachers. The department has started the PG programme in Production Engineering from July 2006. The department is also recognized as Research Center by University of Pune for Ph.D. studies. Two candidates have already completed their Ph.D. from our Department.

### About the programme:

The main objective of this training program is to promote the applications of various soft computing techniques in the field of engineering. The training program is intended to provide a forum in which the participants will obtain information about recent methods and techniques such as evolutionary

algorithms, swarm intelligence, neural network, fuzzy logic decision support systems etc, to solve complex research problems in engineering. The practical case studies will be discussed in the training program to close the gap between theory and the practice of engineering using these methods. This program also offers material aimed at educating potential users working in other areas of research.

### Eligibility:

The program is an interdisciplinary one and is open for all engineering faculty members, research scholars and professionals from industry.

### How to apply

Interested candidate should return the completed Registration form attached with this brochure to:

### Prof. N. B. Gurule

Associate Professor, Department of Production Engineering  
K. K. Wagh Institute of Engineering Education & Research  
Hirabai Hadridas Vidyanagari, Amrutdham, Panchavati  
Nashik - 422003.  
Ph. 9922626734, Email: nbgurule@kkwagh.edu.in

by Email / post / hand on or before 6 December 2016.  
(Photocopy of the Registration Form may be used)

### Registration Fees (per participant)

|                              |          |
|------------------------------|----------|
| Faculty (Engg./Polytechnic): | ₹ 1200/- |
| PG students/Alumni:          | ₹ 1000/- |
| Participant from industry:   | ₹ 1500/- |

Registration fees can be paid in cash at the time of registration. Registration fee includes course material, tea/snacks and lunch on all days of workshop. However, participants have to make their own arrangement for dinner and accommodation.

## REGISTRATION FORM

### "Soft computing: Applications in Engineering"

(8- 10 December 2016)

Name:.....

Designation:.....

Qualification:.....

Experience (Year): Teaching / Industry :.....

Organization:.....

Address:.....  
.....  
.....

Mobile No:.....

E-mail ID:.....

Signature of Applicant

Signature of Head of Institute  
(Supervisor in case of Research Scholar)



### Patron

Hon. Shri. Balasaheb D. Wagh  
President, K. K. Wagh Education Society, Nashik

### Convener

Dr. K. N. Nandurkar  
Principal, K. K. Wagh Institute of Engineering Education & Research, Nashik and Chairman, IIPE Nasik Local Chapter

### Coordinators

- ❖ Dr. P. J. Pawar
- ❖ Dr. S. R. Gangurde  
Department of Production Engineering

### Organizing Committee

Prof. N. B. Gurule  
Prof. A. S. Kamble  
Prof. S. B. Gunjal  
Prof. A. B. Bhusnar  
Prof. A. A. Sonawane  
Prof. M. Y. Khalkar  
Prof. Sudish Ray  
Prof. N. K. Sonawane  
Prof. V. S. Gaikwad  
Prof. A. D. Mandlik  
Prof. N. S. Wakchaure

| Schedule |          |
|----------|----------|
| Time     | Activity |

#### Day 1: 8-12-2016 (Thursday)

|       |                                                                                                                              |
|-------|------------------------------------------------------------------------------------------------------------------------------|
| 09:30 | Registration & Breakfast                                                                                                     |
| 10:00 | <b>Inaugural Session &amp; Keynote Address 1</b><br>- By Dr. D. Datta, Scientist G, BARC, Mumbai                             |
| 11:30 | <b>Keynote Address 2 :</b><br>Engineering Applications of soft computing techniques<br>- an overview : - Dr. K. N. Nandurkar |
| 12:30 | Lunch Break                                                                                                                  |
| 13:30 | <b>Session I:</b> Fuzzy logic & its applications -<br>- Dr. D. Datta, Scientist G, BARC, Mumbai                              |

15:30 Tea Break

16:00 **Session II:** Genetic algorithms: Need, scope & Applications: - Dr. P. J. Pawar

#### Day 2: 9-12-2016 (Friday)

|       |                                                                                                                    |
|-------|--------------------------------------------------------------------------------------------------------------------|
| 09:30 | Breakfast                                                                                                          |
| 10:00 | <b>Session III:</b> GA Applications : -<br>Dr. P. C. Kulkarni, Principal, R. H. Sapat COE, Nashik                  |
| 11:30 | <b>Session IV :</b> Swarm intelligence -<br>Dr. P. J. Pawar                                                        |
| 13:00 | Lunch Break                                                                                                        |
| 14:00 | <b>Session IV :</b> Artificial Neural networks: -<br>Prof. N. M. Shahane,, Computer Engg. Dept,<br>K. K. Wagh IEER |
| 15:30 | Tea Break                                                                                                          |
| 16:00 | <b>Session V:</b> Simulated annealing : - Dr. P. J. Pawar                                                          |

#### Day 3: 10-12-2016 (Saturday)

|       |                                                                                 |
|-------|---------------------------------------------------------------------------------|
| 09:30 | Breakfast                                                                       |
| 10:00 | <b>Session VI:</b> Analytic hierarchy process,<br>Dr. P. J. Pawar               |
| 11:30 | <b>Session VII:</b> Fuzzy logic<br>Dr. R. S. Tiwari, Ex-Director, YCMOU, Nashik |
| 13:00 | Lunch Break                                                                     |
| 14:00 | <b>Session VII:</b> Multi-attribute decision making<br>Dr. S. R. Gangurde       |
| 15:30 | Tea Break                                                                       |
| 16:00 | <b>Session VIII:</b> Multi-objective decision making<br>Dr. P. J. Pawar         |
| 17:30 | Valedictory function                                                            |

## Three Days Workshop on "Soft computing : Applications in Engineering"

8 - 10 December 2016



Organized by

Department of Production Engineering  
K. K. Wagh Institute of Engineering  
Education & Research, Nashik

In association with

Indian Institution of Production Engineers,  
(Nasik Local Chapter)

Convener

**Dr. K. N. Nandurkar**

Principal  
K. K. Wagh Institute of Engineering  
Education & Research, Nashik

Coordinators

**Dr. P. J. Pawar**, Professor & Head  
**Dr. S. R. Gangurde**, Associate Professor  
Department of Production Engineering  
K. K. Wagh Institute of Engineering  
Education & Research, Nashik