



**Directorate of Technical Education**  
Maharashtra State, Mumbai-400 001

**Sponsored One Week**  
**Faculty Development Program**  
**on**  
**Engineering Optimization-**  
**Theory & Practice**

**06-10 January 2020**



Organized by  
**Department of Electrical Engineering**  
**GOVT. COLLEGE OF ENGINEERING**  
**Chandrapur – 442 403**  
Phone No: (07172) 227706, 227664 Fax:227334  
[www.gcoec.ac.in](http://www.gcoec.ac.in)

### GENERAL INFORMATION

Chandrapur is a black gold city located on New Delhi - Chennai Railway line 150 km away from Nagpur. The famous Tadoba-Andhari Tiger Sanctuary is 35 km away from this city.

### ABOUT INSTITUTION

Govt. College of Engineering, Chandrapur established in 1996, offers six UG and two PG programs, affiliated to Gondwana University, Gadchiroli. Two UG programs viz Electrical and Mechanical Engineering are accredited by National Board of Accreditation (NBA). The college is spread over sprawling 62.5 acres of land, 5 kms away from Bus Stand and Railway Station. The college was selected by Govt. of India for Technical Education Quality Improvement Program (TEQIP) Phase-II. The institute has recently signed a MoU with Tata Technologies Limited (TTL) to establish a Center for Invention, Innovation, Incubation and Training (CIIT). The total cost of this project is Rs. 263.4 crore under which nine labs will be developed by TTL. The Department of Electrical Engineering has good infrastructure and very good academic facilities. The department offers one UG program (B.E.- Electrical Engineering: accredited by NBA) and one PG program (M.Tech- Electrical Power System). The department is also recognized as Center for Higher Learning and Research (CHLR) by Gondwana University Gadchiroli.

### CHIEF PATRON

**Dr. Abhay Wagh**  
Director  
Directorate of Technical Education  
Maharashtra State, Mumbai-400 001

### PATRON

**Dr. Ram Nibudey**  
Joint Director  
Technical Education  
Regional Office Nagpur

### CONVENER

**Dr. P. P. Bedekar**  
Principal  
Govt. College of Engineering, Chandrapur

### COORDINATOR

**Dr. R. S. Surjuse**  
Head, Dept. of Electrical Engineering  
+91 9767544979  
Email: surjusemnit@rediffmail.com

### CO-COORDINATOR

**Prof. P. V. Nandankar**  
**Prof. P. V. Dhawas**  
Assistant Professor, Electrical Engineering  
+91 9657357116, +91 8788884808  
Email: pppful@gmail.com,  
prashantdhawas1@gmail.com

### ORGANIZING COMMITTEE

**Prof. T. F. More**  
**Prof. L. B. Awale**  
**Prof. A. R. Sakhare**  
**Prof. S. T. M. Zaheer**  
**Shri. R. L. Chide**  
**Ku. Neha Kamble**  
Dept. of Elect. Engineering, GCOE Chandrapur

### ABOUT THE COURSE

Many engineers and scientists in academics and industries face difficulty in understanding the role of optimization in engineering design. To many of them, it is an esoteric technique used only in mathematics and operations research related activities. With the advent of computers, optimization has become a part of computer-aided design activities.

There are two different types of optimization algorithms – (i) the algorithms which are deterministic, with specific rules for moving from one solution to the other and (ii) the algorithms which are stochastic in nature, with probabilistic transition rules.

The objective of the course is to introduce both types of algorithms and their applications in various fields of engineering.

### MAJOR COURSE CONTENTS

Broad areas to be covered are:

- Introduction to Optimization
- Linear Optimization Techniques
- Nonlinear Optimization Techniques
- Advanced Optimization Techniques
- MATLAB Optimization Toolbox
- Engineering Applications of Optimization

### ELIGIBILITY

Full time teachers of any discipline from AICTE approved Engineering College / University Departments / Polytechnics Colleges are eligible to apply.

### REGISTRATION

A registration fee of Rs. 1000/- (Rupees one thousand only) per participant is to be paid in the form of Demand Draft in favor of “**The Principal, Govt. College of Engineering, Chandrapur**”, payable at **Chandrapur** along with the registration form duly filled and signed by Head of the Institution to be send to the co-coordinator. To avoid postal delay, the scanned copy of completed application form along with scanned copy of DD, should be submitted to the co-coordinator by email. DD and original application may be submitted at the time of registration.

### ACCOMODATION AND TA/DA

The institute will provide the accommodation at the institute hostel. Also assistance will be provided for identifying the outside lodging and boarding facilities, if asked by the participant.

TA/DA expenses (Max. AC 3 Tier Railway Fare) will be paid by the institute.

**Last Dates: 30/12/2019**

**Acceptance Notification: 31/12/2019**

### REGISTRATION FORM

#### **One Week FDP On Engineering Optimization- Theory & Practice 06-10 January 2020**

Name (In block letters): \_\_\_\_\_

Designation: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Educational qualification: BE / M.Tech/Ph. D.

Specialization: \_\_\_\_\_

Faculty Experience: Teaching: \_\_\_\_\_

Others: \_\_\_\_\_

Do you require accommodation: Yes/No

DD No. and Bank: \_\_\_\_\_

Date: \_\_\_\_\_

I agree to abide by the rules & regulations of the FDP and I will attend the FDP for the entire duration.

Place:

Date: \_\_\_\_\_ Signature of the Applicant

The applicant is hereby sponsored to attend the above FDP.

**Signature and seal of sponsoring authority**