



# Government College of Engineering, Amravati

(An Autonomous Institute of Govt. of Maharashtra)

V.M.V. Road, Amravati - 444 604

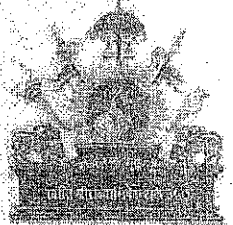
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*"Towards Global Technological Excellence"*



## One Week Short Term Training Program On "Power System Optimization January 16 - 20, 2024"

Dear Sir/Madam,  
Warm Greeting!

Government College of Engineering, Amravati was established in 1964. It is affiliated to Sant Gadge Baba Amravati University, Amravati and offers seven UG and eight PG programs in engineering disciplines. The institute also offers Ph. D. programs in six disciplines. The institute has its own campus spread over 105 acres of land. Over the years, the college has developed by leaps and bounds in to a premier institute of India, catering to the needs of industries, public sector undertakings, institutes and community in general.

The institute has been awarded an autonomous status in the year 2006. This college was participant institute in the prestigious Canada India Industry Institute Linkage Project (CIIILP). The institution has been successfully completed World Bank assisted project under Technical Education Quality Improvement Program (TEQIP) Phase I and Phase II. The institute has established two Center of Excellence (CoE) and one more CoE has been sanctioned by Govt. of Maharashtra.

The institute has got NAAC accreditation. Three UG programs of the institute are accredited by NBA. The institute has celebrated its Golden Jubilee during the year 2023 - 2024, and shall celebrate its diamond jubilee in the year 2024.

It gives me pleasure to inform that the Department of Electrical Engineering is organizing DTE sponsored one week Short Term Training Program on "Power System Optimization January 16- 20, 2014, devised for participants from academia and industries and the objective of the course is to introduce different optimization algorithms and their applications in power system optimization.

The detailed Brochure of STTP is attached here with. It is requested to encourage and depute faculty members, PG students and research scholars from your institute to participate in the program.

Thanking You in Anticipation.

Dr. A. M. Mahalle  
Principal

Govt. College of Engineering Amravati



Directorate of Technical Education  
Sponsored One Week Faculty  
Development Program (FDP) on

### Power System Optimization

January 16 – 20, 2024

#### REGISTRATION FORM

- 1) Name: \_\_\_\_\_
- 2) Designation: \_\_\_\_\_
- 3) Department: \_\_\_\_\_
- 4) Address for correspondence: \_\_\_\_\_
- 5) Phone/ Mobile Number: \_\_\_\_\_
- 6) E-mail: \_\_\_\_\_
- 7) Educational Qualification: \_\_\_\_\_
- 8) Experience: \_\_\_\_\_

Place: \_\_\_\_\_ Signature of applicant

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

Mr./ Ms./ Dr. \_\_\_\_\_  
is an employee of this institute and is  
hereby sponsored to attend the course, if  
selected.

Seal and Signature of  
the sponsoring Authority

#### Patron

Dr. Vinod Mohitkar

#### Director

DTE, M.S., Mumbai

Dr. V. R. Mankar

Joint Director (Tech. Edu.)

Amravati Region

#### Convenor

Dr. A. M. Mahalle

#### Principal

Govt. College of Engineering Amravati

Dr. V. M. Jape

#### HoD

Electrical Engineering

Govt. College of Engineering Amravati

#### Coordinator

Dr. R. B. Sharma

#### Co-coordinator

Prof. U. V. Dongare

Electrical Engineering Department

Govt. College of Engineering

Amravati

#### Contact:

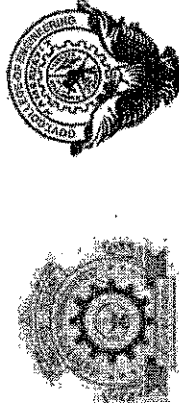
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Sharma.rajesh@gcoe.ac.in

Prof. U. V. Dongare 9890270156

ujwala.0610@gmail.com

Government College of  
Engineering  
Amravati



Directorate of Technical Education

Sponsored One Week Faculty

Development Program

on

Power System Optimization

16.01.2024 to 20.01.2024

#### Organized by

Department of Electrical Engineering

Govt. College of Engineering

Amravati (M.S.) – 444 604

### ABOUT THE INSTITUTE:

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The institute has celebrated its Golden Jubilee during the year 2013 – 2014, and shall celebrate its **diamond jubilee in the year 2024.**

### 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.

Electric power systems have experienced continuous growth in all the three major sectors of the power system namely, generation, transmission and distribution. In order to achieve the best performance optimization in power system is must. It is therefore necessary to employ most efficient optimization methods to take full advantages in simplifying the formulation and implementation of the power system optimization problem.

The objective of the course is to introduce different optimization algorithms and their applications in power system optimization.

#### CONTENTS:

- 1) Introduction to optimization
- 2) Conventional optimization techniques
- 3) Advanced optimization techniques (GA, PSO, Java Algorithm etc)
- 4) MATLAB Optimization Toolbox
- 5) Applications of optimization in power system

### ELIGIBILITY:

Full time teachers of Electrical Engineering discipline from Government & Government aided Engineering Colleges/ Polytechnics are eligible to apply.

### REGISTRATION:

Teaching staff of Government & Government aided Engineering Colleges/ Polytechnics are exempted from registration fees.

To avoid postal delay, the scanned copy of completed application form should be submitted to the co-coordinator by email. Original application may be submitted at the time of registration

### IMPORTANT DATES:

Last date for Registration: **10 Jan 2024**

Intimation of Acceptance by email: **12 Jan 2024**

### ACCOMMODATION AND TA/DA:

The institute will provide assistance for identifying the outside lodging and boarding facilities, if asked by the participant.

No TA / DA will be provided by this institute to any participant.