

**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

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**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:

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 (CIILP). The institution has been successfully completed World Bank assisted project under Technical Education Quality Improvement Program (TEQIP) Phase I and Phase II. The institute have 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 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, Jaya 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**

ACCOMODATION 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.