



Directorate of Technical Education  
Maharashtra State, Mumbai-400 001

Sponsored One Week  
Faculty Development Program  
On

Industry 4.0 -  
Opportunities & Challenges

03-07 February 2020



Organized by

Department of Mechanical 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

Government College of Engineering, Chandrapur established in 1996, offers six UG and two PG programs, affiliated to Gondwana University, Gadchiroli. Three UG programs viz Mechanical, Electrical and Instrumentation 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 centers will be established by TTL. The Department of Mechanical Engineering has good infrastructure and provide finest academic facilities. The department offers one UG program (B.E. - Mechanical Engineering) and one PG program (M.Tech- Mechanical Engg. Design). 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. S. W. Rajurkar**

Head, Dept. of Mechanical Engineering  
+91 8888072293

Email: [swrajurkar@gmail.com](mailto:swrajurkar@gmail.com)

#### CO-COORDINATOR

**Dr. L. P. Dhole**

Associate Professor, Mechanical Engineering  
M-9421495596; Email: [lalithdhole@gmail.com](mailto:lalithdhole@gmail.com),

**Prof. P. V. Chitbule**

Assistant Professor, Mechanical Engineering  
M.-9028371335; [pavan\\_chitbule@yahoo.com](mailto:pavan_chitbule@yahoo.com),

#### ORGANIZING COMMITTEE

**Dr. U. S. Wankhede, Dr. S. B. Ingole,**

**Dr. P. V. Washimkar, Prof. S. W. Burande,**

**Prof. R. S. Mohod, Prof. S. C. Jamunekar,**

**Prof. S. T. Ambadkar, Dr. P. A. Bagde,**

**Prof. S. R. Wagh**

Dept. of Mechanical Engineering,

Government College of Engineering, Chandrapur

## ABOUT THE COURSE

Industry 4.0 is a collective term for technologies and concepts of value chain organization. Industry 4.0 provides the vision of the Smart Industry of 21<sup>st</sup> century and beyond. Industry 4.0 is the trend towards automation and data exchange in manufacturing technologies & processes which includes cyber-physical systems, IoT, Industrial IoT etc. The objective of the course is to update the participants about the Industrial Evolution and 4th Industrial Revolution. Also to provide comprehensive understanding of various aspects of Industry 4.0, its need, applications, opportunities and challenges. To inculcate research interest among the participants on Industry 4.0.

## MAJOR COURSE CONTENTS

Broad areas to be covered are:

- Industry 4.0 overview
- Advances in Manufacturing
- Smart Manufacturing
- Six-Sigma Lean Project
- Digital twins
- Technology enabled opportunities and challenges.
- Digital transformation in Manufacturing
- Product Life Cycle Management
- Lab sessions on PVA, PLM, IDI

## ELIGIBILITY

Full time teachers of any discipline from AICTE approved Engineering College / Pharmacy/ 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 drawn 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 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.

## ACCOMMODATION 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 Date of registration: 28/31/2020

Notification of Acceptance: 30/01/2020

## REGISTRATION FORM

**One Week FDP On  
Industry 4.0 -  
Opportunities & Challenges  
03-07 February 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: \_\_\_\_\_ Signature of the Applicant

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

The applicant is hereby sponsored to attend the above FDP.

Signature and seal of sponsoring authority