

Department of Higher Education, Science & Technology and Biotechnology  
Government of West Bengal  
Sponsored

Short Term Teacher Training Programme  
*On*

**Heating, Ventilation & Air-Conditioning and Refrigeration  
(HVAC&R)**

**December 17-28, 2018**

Conducted by

Department of Mechanical Engineering

**Jalpaiguri Government Engineering College**



Course Co-ordinator

**Dr. Arijit Kundu**

**Associate Professor**

Joint-co-ordinator

**Dr. Nripen Mondal**

**Assistant Professor**

**Jalpaiguri**

**West Bengal 735102**

## **Patron**

Prof. Amitava Ray, Principal

## **Advisory Committee**

Prof. S. Bhattacharya, Head, Mechanical Engineering Department

## **Course Co-ordinator**

Dr. Arijit Kundu, Associate Professor, Mechanical Engineering Department

## **Joint-Co-ordinator**

Dr. Nripen Mondal, Assistant Professor, Mechanical Engineering Department

## **Members**

Dr. Nimai Mukhopadhyay

Dr. Saipayan Mitra

## **Short Term Training Programme on HVAC&R: Objectives**

This Short Term Teacher Training Program on HVAC&R, is being conducted by the Department of Mechanical Engineering in Jalpaiguri Government Engineering College, West Bengal in collaboration with the Department of Higher Education, Science & Technology and Biotechnology, Government of West Bengal, for enhancing teaching skills of faculty of Engineering Colleges. It is meant to train faculty from all departments of Science, Engineering and Technology. The trained faculty can potentially utilize subject matters from this course for (i) teaching Undergraduate/Postgraduate (UG/PG) courses in Technical or Scientific Communication and (ii) training project students to communicate their research or development work. On successful completion of this program they will be able to organize, comprehend, write, and present, short and long forms of any technical work in the framework of the Scientific Method.

## **Who is eligible?**

- ↵ Any faculty member from technical Institutes and Colleges (preferably with ISTE membership).
- ↵ Faculty from polytechnic institutes.
- ↵ Teachers registered in a Masters or a Ph.D program, during their employment as a teacher in one of the above categories.

## **Course Overview**

The training program deals with HVAC system fundamentals and components, system design, equipment erection, equipment maintenance and detail engineering of Central HVAC Systems including Duct Air Systems with dedicated training sessions covering detailed applications & usage of codes & standards like ASHRAE. Upon completion of this course the participant will be able to Learn to use codes & standards of HVAC industry, Design HVAC Systems - perform calculations, route, select equipments, estimate quantities, perform cooling / heating load calculations for buildings, design the ventilation, duct air & chilled water distribution systems for residential & commercial buildings, understand the complete design, selection & installation of different components and systems used in the HVAC Systems, refrigeration basics and design procedures.

## Faculty

Distinguished Professors from IIT Roorkee, Jadavpur University and other Universities will join the course as resource persons for delivering lectures on relevant topics of the course.

## Venue

Seminar Room, Mechanical Engineering Department, Jalpaiguri Government Engineering College.

## Course Fee and Accommodation

Teachers, who wish to register, need to pay a refundable amount of Rs. 500/- as confirmation to participation. For lunch, the participants don't need to bear any charges (for ten days during the classes). Registrations are welcome for 'first come first serve' basis of the first 25 participants. No TA will be provided to the participants. Accommodation will be arranged in the student hostels.

**The participation fee of Rs. 500/- is mandatory (for only 25 participants) and fully refundable at the end of the course.**

## How to apply?

Those wishing to attend this course should first register online at <http://www.jgec.ac.in>

It is mandatory that while registering for the course, the participants should submit a scanned copy of the registration form available in the Institute's website duly signed from the Head of the Institute. Registration without this letter will not be confirmed.

## Important Dates

- ↪ Last date for online registration: **30th October, 2018**
- ↪ Last date for payment of course fee: **30th October, 2018**
- ↪ Final approval of participation from JGEC: **02nd November, 2018**
- ↪ STTP course period: **17th December to 28th December, 2018**

## Address for communication

Dr. Arijit Kundu

Department of Mechanical Engineering

Jalpaiguri Government Engineering College

Ph: (03561) 255465

Mob: +91 9874607650

Email: [arijit.kundu@me.jgec.ac.in](mailto:arijit.kundu@me.jgec.ac.in)

**REGISTRATION FORM**

WBDHESTB Sponsored  
Faculty Development Program  
on

**Heating, Ventilation & Air-Conditioning and Refrigeration**

December 17-28, 2018

**Jalpaiguri Government Engineering College  
Department of Mechanical Engineering**

Name: Mr./Ms/Dr. \_\_\_\_\_  
(In capital letters)

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

Department: \_\_\_\_\_

Organization: \_\_\_\_\_

Address for Correspondence: \_\_\_\_\_

\_\_\_\_\_

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

Contact No.: \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Recommendation of the sponsoring authority:**

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

Signature and Seal of Sponsoring Authority