INTRODUCTION

With increase in industrial activities to fulfil the basic needs, the freshwater demand is rising. As a consequence, wastewater generation is also likely to increase significantly. The situation in developing nations like India becomes more alarming due to the shortage of good quality water in surface and subsurface sources. In a sustainable society, it is imperative to protect natural resources and the surrounding environment by adopting efficient wastewater treatment processes. In order to encourage industries for taking appropriate measures to reduce freshwater demand partly by recycling treated wastewater, the regulations for water abstraction and wastewater discharge are becoming more stringent. The wastewater streams generated from process industries are contaminated by a variety of toxic and non-biodegradable inorganic and/ or organic pollutants which often require advanced treatment processes to make wastewater suitable for recycling. The choice of treatment strategy largely depends upon wastewater characteristics and the desired quality of treated wastewater.

Hence, this short course is designed for professionals working in industries to provide insight into developments in effluent treatment for promoting recycling of wastewater. The lectures are planned on pertinent regulatory requirements as well as conventional and advanced treatment processes for industrial effluents. Apart from this, management of hazardous waste from the industries will also be discussed in one of the lectures.

BROAD OBJECTIVES

- To give an overview on industrial effluent generation, their characteristics and regulatory requirements
- To discuss conventional physico-chemical and biological treatment processes for industrial effluent
- To provide insight into advanced treatment methods to improve wastewater recycling potential
- To discuss hazardous waste treatment methods

COURSE CONTENTS

This short course will include following topics:
- Overview of industrial effluents and treatment processes
- Regulations and wastewater discharge standards
- Conventional physico-chemical and biological processes
- Advanced treatment methods (such as membrane technology, biodegradation and advanced oxidation processes)
- Application of such processes on specific industrial wastes

- Anaerobic wastewater treatment
- Hazardous waste management techniques

WHO MAY BENEFIT

- Industrial professionals working in effluent treatment and management
- Officials from Pollution Control Boards and other related departments

At the end of the course, the participants will appreciate important effluent parameters (general as well as industry-specific) and treatment methods helping the industries to reduce water abstraction with improvement in recycling potential.

FACULTY

The teaching faculty constitutes experts from IIT Bombay.

VENUE FOR CLASSES

Classes will be held at IIT Bombay. Exact Venue will be announced soon.

LECTURE NOTES

To fully understand the objectives of the course, the lecture handouts will be made available at the time of registration at IIT Bombay.

DATE & TIME OF REGISTRATION:

December 10, 2019, 9.00 AM at IIT Bombay.

COURSE FEE

- For Government professionals: 11800/- per participant including taxes
- For professionals from other organizations and industries: 14160/- per participant including taxes

The course fee includes course material, working lunch and coffee/tea during breaks.

The demand draft may be drawn in favour of “The Registrar, IIT Bombay - CEP Account”. Please note that no income tax is to be deducted at source from the course fee, as IIT Bombay is exempt from the same.
Completed Registration form (Typed) should be sent to Course coordinators:

Prof. Anurag Garg (Coordinator)  
Professor  
Environmental Science and Engineering Department, IIT Bombay, Powai, Mumbai, India  
Ph. No.: 022-25767861  
E-mail: a.garg@iitb.ac.in

Prof. Suparna Mukherji (Coordinator)  
Professor  
Environmental Science and Engineering Department, IIT Bombay, Powai, Mumbai, India  
Ph. No.: 022-25767854  
E-mail: mitras@iitb.ac.in

Deadline for submitting application: 30 November, 2019  
Notification of acceptance: 3 December, 2019

- For additional copies of the registration form, please use a photocopy or type in the format given.  
- Incomplete application forms will not be entertained.

For further details: http://www.iitb.ac.in/~cep/
REGISTRATION FORM

CEP Course on

Industrial Effluent Treatment
December 10 - 11, 2019

NAME (BLOCK LETTERS): ______________________________________________
___________________________________________________   Gender: M / F

DESIGNATION: _______________________________________________________

ORGANIZATION: _______________________________________________________

MAILING ADDRESS: ___________________________________________________
_____________________________________________________________________
_____________________________________________________________________

TELEPHONE: ____________________ (O) ____ ___________________ (R)

FAX: ____________________________ MOBILE: _________________________

EMAIL: __________________________

QUALIFICATIONS: _______ EXPERIENCE: _______ Yrs.

IIT Guest House accommodation required?*   YES / NO

PAYMENT:  D.D. No.:   Dt.   Rs.

[Demand draft should be drawn in favour of "Registrar, IIT Bombay (CEP A/c)"]

On-line Payment Transaction Details

Kindly arrange to provide the following transaction details, if the course fee is paid on-line:

1. Name of the Course Participant:

2. Transaction No.:

3. Date of Transaction:

4. Amount:

5. Bank & Branch Name from where transfer is done

Please email the above details to: cep@iitb.ac.in

*Guest House (if available) bill to be paid directly by participant.