

NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

TEQIP-II Sponsored
SHORT TERM COURSE

on

Bioremediation of Industrial Wastes for a Greener World

December 08 to 12, 2014

REGISTRATION FORM

NAME (in block) :

Gender : M/F Food : Veg/Non Veg

Designation :

Organization :

Address :

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Tel/Fax :

Email :

Qualifications :

Experience :

Registration Fee :

DD No..... Date :

Date:

Signature of
Head of the Department or
Organization

Signature of Applicant

List of speakers (tentative)

Prof. Binay K. Dutta

Chairman, West Bengal Pollution Control Board

Prof. Siddhartha Dutta

Pro Vice-Chancellor, Jadavpur University

Prof. Pinaki Bhattacharya

Professor, Dept of Chemical Engineering,
Heritage Institute of Technology, Kolkata

Prof. P. Ray

Ex-Professor, Department of Chemical
Engineering, University of Calcutta

Prof. Debabrata Das

Professor, Department of Biotechnology, IIT KGP

Prof. Ranjana Chowdhury

Professor, Department of Chemical Engineering,
Jadavpur University

Dr. Ramkrishna Sen

Associate Professor,
Department of Biotechnology, IIT KGP

Prof. Tamal Mandal

Professor, Department of Chemical Engineering,
NIT Durgapur

Dr. Rajnarayan Saha

Associate Professor, Department of Chemistry,
NIT Durgapur

Dr. Jitamanyu Chakrabarty

Assistant Professor,
Department of Chemistry, NIT Durgapur

Dr. Susmita Dutta

Associate Professor, Department of Chemical
Engineering, NIT Durgapur

Dr. Surabhi Chaudhuri

Associate Professor,
Department of Biotechnology, NIT Durgapur

Dr. Debjani Dutta

Assistant Professor,
Department of Biotechnology, NIT Durgapur

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Bioremediation of Industrial Wastes for a Greener World

December 08 to 12, 2014



Organized By :

Department of Chemical Engineering

in association with

Department of Biotechnology

NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

Mahatma Gandhi Avenue, Durgapur - 713209, W.B., India

Website : www.nitdgp.ac.in

COORDINATORS :

Dr. Susmita Dutta

Department of Chemical Engineering

Dr. Surabhi Chaudhuri

Department of Biotechnology

Dr. Debjani Dutta

Department of Biotechnology

E-mail ID : bioremnitdgp@gmail.com

INTRODUCTION

Complex organic compounds, oils, heavy metals, dyes and pigments from industrial processing and pesticides from agricultural activities are contaminating our soil and water alarmingly. Recent advances in biotechnology have opened an avenue for biological degradation and removal of the contaminants in a process known as bioremediation. In this short term course, the various techniques of bioremediation of industrial wastes using various microorganisms will be discussed. Both theoretical and experimental training will be imparted for an in-depth understanding of bioremediation technology.

BROAD OBJECTIVES

To understand the process of bioremediation

To learn about present available techniques of bioremediation

To gain knowledge on present research going on in the field of bioremediation

COURSE CONTENTS

1. Overview of bioremediation
2. Bioremediation of petrochemical wastes
3. Biodegradation of dye
4. Bioremediation of pesticides
5. Algal bioremediation
6. Bioremediation of heavy metals
7. Reactors for bioremediation
8. Bioremediation of phenolic wastes

Laboratory sessions will be held on Analysis of contaminants by Gas Chromatography, Analysis of Heavy Metals by Atomic Absorption Spectroscopy, Algal bioremediation and Dye degradation. Industry visit will be arranged.

WHO MAY BENEFIT

Faculty members of academic institutes/universities/colleges, experts from Government organizations, industry personnel, research scholars and students will benefit from the course.

BOARDING & LODGING

Candidates will have to make their own arrangement for boarding and lodging. However, assistance may be provided in finding suitable accommodation nearby.

FACULTY

The teaching faculty will constitute of eminent Faculty members from IITs, Jadavpur University, Calcutta University and NIT Durgapur

VENUE FOR CLASSES

D M Sen Memorial Hall, NIT Durgapur

LECTURE NOTES

Lecture notes will be provided for each session.

COURSE FEE

Faculty members/Scientists: Rs. 2000/-

Research scholars: Rs. 1000/-

Students: Rs 500/-

Industry personnel: Rs. 5000/-

Course fee includes registration kit, breakfast, working lunch and study materials.

The Demand Draft will be drawn in favor of **Director, NIT Durgapur**, payable at **Durgapur**.

Last date of receiving completed application form – October 30, 2014

Intimation of selection for the course – November 07, 2014

Incomplete application forms will not be entertained.

Organizing Committee:

Patron

Prof. T. Kumar

Director, National Institute of Technology Durgapur

Chairman

Prof. Tamal Mandal

Head, Department of Chemical Engineering

Advisory Committee Members

Prof. J. P. Sarkar

Dean (Planning & Development)

Prof. A. Gangopadhyay

Dean (Administration)

Prof. P. Gupta

Dean (Research & Consultancy)

Prof. K. C. Ghanta

Co-ordinator, TEQIP-II

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