

TEQIP Sponsored
Short Term Training Program (STTP) on
“Bioprocess Development, Reactor
Design and Analysis”
From 9th to 13th January 2017

REGISTRATION FORM

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Designation:

Organization:

Qualification:

Correspondence Address:

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E-Mail:

Registration Fee is paid in the form of
Cash/DD

Amount

No.....Date

Name of the Bank.....

Accommodation Required: Yes / No

Date:

Place:

Signature

Note:

■ Demand draft should be made in favor of
Director, National Institute of Technology
Raipur, payable at Raipur. Accommodation
charge has to be borne by the candidates.

■ Photocopies of registration form may be used.

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Director, NIT Raipur

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Dean (R&C), NIT Raipur

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Dr. Lata Upadhyay

Head, Dept. of Biotechnology

Coordinators

Dr. Pratima Gupta

Dr. J. Satya Eswari

Dr. A. Seenivasan

Organizing Committee Members

Dr. Awanish Kumar

Dr. D. Vasanth

Co-organizing Committee Members

Suresh Chandra Phulara

Batul Diwan

Swasti Dhagat

Nisha Suryawanshi

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One Week TEQIP Sponsored

Short Term Training Program

on

Bioprocess Development, Reactor

Design and Analysis

From 9th to 13th Jan 2017

Coordinators

Dr. Pratima Gupta

Dr. J. Satya Eswari

Dr. A. Seenivasan



Organized by

Department of Biotechnology

National Institute of Technology

Raipur-492 010,

Chhattisgarh, India

About the Institute



National Institute of Technology Raipur

situated in the capital of Chhattisgarh, has proven to be 'avant-grade' in the field of science and technology over past few decades in this region. With sweet memory of foundation ceremony by our president Hon'ble Dr. Rajendra Prasad on 14th September 1956. The institute started with two departments namely Metallurgical and Mining Engineering. Later the inauguration of the Institute building was done by our Prime Minister Hon'ble Pt. Jawahar Lal Nehru on 14th March 1963. From 1st December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi and all metro cities by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km from the Raipur railways station and 18 km from airport on NH-6, the Great Eastern Road.

About Department

The Department of Biotechnology was established in the year 2003. Currently, the Department offers B. Tech with an intake of 60 and Ph. D. Programmes in Biotechnology.

At present, the department has six faculties. The department has carried out active research in different fields of biotechnology.

Objectives

The short term course is a tailor-made to train the participant to be fundamentally strong in the field of bioprocess development, bio-reactor design and analysis. This course also helps to know more about the selection criteria of reactors based on the applications. This programme also serves as plat-form to deliver and exchange of scientific ideas in these fields.

Scope

Biological reaction engineering is an evergreen concepts and it solves many of global demands and problems in greener way. It is successful due to its eco-friendly and economical too. However, the successes of any process are lies on the economics of the process. One way to solve the problem is by improving the process. Hence, it mandatory to understand the various factors involved in the process and optimizes them to improve the process.

There are some basic concepts about chemical reactors, which may not sufficient to design a reactor for biological reactions. It requires some special consideration which has to be considered during the design.

By keeping this in mind, we have proposed the following topics to be discussed during the short

term programme. Experts from IITs, NITs and R&D centers will be delivering the lectures.

Topics to be covered

1. **Bioprocess Development:** Process improvement by optimization of physico-chemical parameters, DoE, statistical and non-statistical designs, Different optimization techniques, Metabolic Engineering concepts-footprinting, metabolic pathway analysis, *etc.*

2. **Bioreactor design and analysis:** Basic reactors configurations, ideal and non-ideality of behaviors, heat and mass transfer phenomena, types of reactors, controls of reaction and process parameters.

Reactor design for the treatment of environmental pollutants

Targeted Participants:

- Under- & Post-Graduate
- Faculties/Research Scholars
- Industrial persons/Young Entrepreneurs

Registration Fee Details:

Participants	Amount (in Rs)
Students	750
Faculty	2000
Industry Delegates	4000

Application in the prescribed format with registration fee in the form of Demand Draft drawn in favor of "Director, NIT Raipur" must reach the coordinator on or before **7th January, 2017**. You can also pay by **Wire transfer/NFET/RTGS**. Registration fee includes registration kit, tea and lunch during the program and is non-refundable. Selected candidate will be informed by E-mail/Phone. For stay at hostels, pre-request is mandatory.

About Speakers



Prof. K. Krishnaiah

Professor K.K. is Emeritus Professor at Department of Chemical Engineering, IIT Madras. He received his B. Tech and M. Tech in Chemical Engineering from NIT Warangal, India and Ph. D. from IIT Madras. He has been serving to the Department of Chemical Engineering, IIT Madras since 1981. He is specialized in Chemical Reactor Analysis and Design, and Fluidization. He has also extensively working on biological waste water treatment. He has published several journals in reputed international journals. He has received best teacher award at IITM, Srimathi Marti Annapurna Gurunath Award for Excellence in Teaching in 2012. He recently received “Life Time Achievement Award” for his outstanding life-long contribution to Engineering education and research in 2016.

Dr. P. Balasubramanian

He has completed his B. Tech in Biotechnology from Bharathidasan Institute of Technology, India and M. Tech in Environmental management from College of Engineering Guindy, Anna University and Ph.D. from IIT Madras in the field of Environmental Engineering. He has joined in the

We have also invited several faculties, namely, **Professor T. Panda**, Biochemical Engineering, IIT Madras **Professor R. K. Sen**, IIT Kharagpur, **Dr. Kasturi Dutta**, NIT Rourkela, and **Dr. Achlesh Daverey**, Doon University to deliver tailor made topics in the bioprocess development, design and analysis of bioreactor

Bank details of NIT Raipur

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